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# ZOOLOGICAL RECORD

VOLUME THE FIFTY-NINTH

BEING

## RECORDS OF ZOOLOGICAL LITERATURE

RELATING CHIEFLY TO THE YEAR

## 1922

COMPILED FOR THE ZOOLOGICAL SOCIETY OF LONDON WITH ASSISTANCE FROM SOME REGIONAL BUREAUS OF THE INTERNATIONAL CATALOGUE, BY

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SUPERINTENDED BY

W. L. SCLATER, M.A., F.L.S.

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# PREFACE.

THE present volume of the Zoological Record closely resembles its predecessor. The only change of any importance is that in the Section ARACHNIDA, all the titles referring to that group have been placed together in one list, as has always been done in the case of the Insecta.

There have been one or two changes among the Recorders. The Brachiopoda and Bryozoa have been undertaken by Miss H. M. Muir Wood, M.Sc., in place of Mr. W. N. Edwards, and we are glad to be able to state that the Imperial Bureau of Entomology have consented to become responsible for the Insecta and that part for the present year has been compiled by the staff of the Bureau with the help of Messrs. N. D. Riley and W. H. T. Tams. Neither Miss Procter nor Mr. Hinton found themselves able to undertake the Reptiles and Mammalia respectively in the present volume, and the record for these groups have been compiled by the Editor, Mr. W. L. Sclater.

After the publication of Vol. 58 (literature of 1921) the Zoological Society made it known that in view of the greatly increased cost of production, it would cease issuing the Record unless it received substantial help from institutions and persons directly interested in zoological bibliography. The Society, in addition to providing the office accommodation and clerical work associated with publication, is prepared for the present to make an annual contribution of £500 towards the cost of the Record. Donations or promises, of which a list is appended, amounting to a total of £684 17*s.* 0*d.*, have been received in respect of Vol. 59, now issued. It is hoped that this sum, together with the Society's contribution of £500 will leave a balance of receipts over expenditure which will be carried over towards the cost of Vol. 60. The Society, to prevent delay, has already sanctioned the compilation of Vol. 60 and of the next volume (61, literature of 1924), but the question of publication must again be held over until support has been secured. So far, the only gifts or promises towards

the publication of Vol. 60, in addition to any balance that may be carried forward and the Society's own contribution of £500, are £20 from the Society of Tropical Medicine and Hygiene and £5 5*s.* from the Challenger Society. The Imperial Entomological Bureau, which undertook the compilation of INSECTA for Vols. 59 and 60, on receipt of the usual recorders' fees, has now agreed to undertake the same work for Vol. 61 without payment—a most welcome support of moral and material value.

The Zoological Society has received widespread testimony as to the value of the Record to Zoological Science. But it has again to insist that such testimony, although agreeable, will not secure the continuance of the Record unless it assume the practical form of more subscriptions to the whole volume and the separate divisions, and donations towards the deficit.

P. CHALMERS MITCHELL, *Secretary.*
Zoological Society of London.

*July*, 1924.

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## EXPLANATORY.

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The Literature indexed is mainly that of 1922 but includes entries for earlier years that have been received too late for inclusion in previous volumes.

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# I. COMPREHENSIVE ZOOLOGY

BY

W. L. SCLATER.

This section includes works that deal with more than one branch of Zoology, or that are of general interest to Zoologists. It is, therefore, not complete in itself as regards any one subject included in it. The special records complete each subject. A few memoirs included in the special records are repeated in this division.

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# II. PROTOZOA

ARRANGED BY

H. M. WOODCOCK, D.Sc.

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*Haliphysema advena* **sp. n.** Tortugas, CUSHMAN Dept. Mar. Biol. Carnegie Inst. **17** p. 18 text-fig. 1.

†*Helicolepidina* **subgen. n.** of *Lepidocyclina* for *L.* (*H.*) *spiralis* **sp. n.** Priabonian, Trinidad, TOBLER Eclog. Geol. Helvet. **17** pp. 380–384 3 text-figs.

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†*L. carinata* **sp. n.** p. 15 pl. i fig. 24, PAALZOW Abh. nat.-hist. Ges. Nürnberg **22**.—*L. orbignyana* (Seg.) **var. n.** *flintii*, CUSHMAN Prof. Papers **129 F** p. 129 pl. xxix fig. 11.

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†*Lithuonella kerfornei* p. 276 text-fig. 1, *buliminaeformis* p. 277 fig. 2, **spp. n.**, Tertiary Brittany, ALLIX Bul. Soc. géol. Bretagne **2**.

† *Marginella kitsoni* **sp. n.**, Tertiary, CHAPMAN Rec. Geol. Surv. Victoria **4** pt. 3 p. 321 pl. li fig. 4.

†*Marginulina brevis* p. 21 pl. ii fig. 18, *hirta* p. 22 fig. 19, **spp. n.**, Jurassic, PAALZOW Abh. nat.-hist, Ges. Nürnberg **22**.

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*Miliolina calcarata* **sp. n.** p. 68 pl. figs. 4–6, Antarctic, *M. auberiana* **var. n.** *arenacea* p. 232 figs. 1–3, Rio, HERON-ALLEN & EARLAND "Terra Nova" Exped. Zool. **6** No. 2.

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†*N. conoidea* p. 226 pl. xlii fig. 10, *kunzi* p. 229 fig. 24, *densestriata* p. 229 fig. 25, **spp. n.**, Jurassic, PAALZOW Abh. nat.-hist. Ges. Nürnberg **19**.

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*Nubecularia antillarum* **sp. n.** Tortugas, CUSHMAN Dept. Marine Biol Carnegie Inst. **17** p. 58 text-figs. 7 & 8.

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†*Orbitolites complanata* varr. *gigantea*, *perundata*, Sacc. Eocene, Istria, note SACCO Atti Accad. sci. Torino **57** p. 211 figs. E & F.

†*Orthophragmina patellaris* var. *magni-irregularis* Sacc., p. 209 text-fig. A, var. *pseudamericana* Sacc. p. 310 figs, B, C, Eocene, SACCO Atti Accad. sci. Torino **57**.—*O. peruviana* **sp. n.** Eocene, CUSHMAN in: Bosworth Geol. & Paleont. Peru **1922** pt. ii Sect. E p. 138 pl. xxiv fig. 3.

†*Patellina advena* **sp. n.** p. 135 pl. xxxi fig. 9, Oligocene, CUSHMAN Prof. Papers **129 F.**

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*Peneroplis*, different forms, Balearic Islands, CRESPI Butll. Catal. N. H. (2) **2** pp. 98–102 pls. v & vi.

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†*Polymorphina advena* p. 132 pl. xxxi fig. 4, *vicksburgensis* p. 133 fig. 2, **spp. n.**, *cuspidata* Brady **var. n.** *costulata* p. 133 fig. 1, Oligocene, Mint Spring, CUSHMAN Prof. Papers **129 F.**—*P. byramensis* **sp. n.** Cushman, Oligocene, p. 94 pl. xvii fig. 2, COOKE & CUSHMAN *op. cit.* **129 E.**

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*Quinqueloculina collumnosa* p. 65 pl. x fig. 10, *subpoeyana* p. 66, **spp. n.**, Tortugas, CUSHMAN Dept. Marine Biol. Carnegie Inst. **17.**

†*Q. cookei* p. 141 pl. xxxiii figs. 2 & 3, *vicksburgensis* p. 141 pl. xxxiv fig. 6, *glabrata* p. 141 fig. 8, *lustra* p. 141 fig. xxxiii fig. 6, *tesselata* p. 142 fig. 8 pl. xxxiv fig. 1, **spp. n.**, Oligocene, Mint Springs, CUSHMAN Prof. Papers **129 F.**—*Q. würgauensis* **sp. n.** Jurassic, PAALZOW Abh. nat.-hist. Ges. Nürnberg **19** p. 221 pl. xli figs. 23–25.

†*Ramulina spandeli* **sp. n.**, p. 246 pl. xlvii fig. 15, PAALZOW T.c.

*Rotalia soldanii* **var. n.** *arenacea* p. 220 pl. vii figs. 29–31, HERON-ALLEN & EARLAND Brit. Antarct. ("Terra Nova") Exped. Zool. **6** No. 2.

†*R. vicksburgensis* **sp. n.** p. 139 pl. xxxv figs. 3 & 4, *dentata* Park. & Jones **var. n.** *parva* p. 139 figs. 1 & 2, CUSHMAN Prof. Papers **129 F.**—*R. byramensis* **sp. n.** Cushman p. 99 pl. xxiii fig. 1, Oligocene, COOKE & CUSHMAN *op. cit.* **129 E.**

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*Sigmoilina umbonata* **sp. n.** p. 71 pl. i figs. 7, 8, HERON-ALLEN & EARLAND "Terra Nova" Exped. Zool. **6** No. 2.

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†*Siphonina advena* **sp. n.** Cushman p. 98 pl. xxii figs. 1, 2, COOKE & CUSHMAN Prof. Papers **129 E.**

†*Spirillina conoidea*, Jurassic, PAALZOW Abh. nat.-hist. Ges. Nürnberg **19** p. 217 pl. xli fig. 8.—*S. limbata* Brady **var. n.** *bipunctata* p. 134 pl. xxxii figs. 3–5, CUSHMAN Prof. Papers **129 F.**—*S. subdecorata* **sp. n.** Cushman, Oligocene, Byram, COOKE & CUSHMAN *op. cit.* **129 E** p. 95 pl. xix figs. 4 & 5.

*Spiroloculina eximia* p. 61 pl. xi fig. 2, *caduca* p. 61 figs. 3, 4, **spp. n.** Tortugas, CUSHMAN Dept. Marine Biol. Carnegie Inst. **17.**

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†*T. tumidulum* p. 89 pl. xv figs. 1, 2, *subhauerii* p. 89 pl. xiv fig. 2, *mississippiensis* p. 90 fig. 4, **spp. n.**, Cushman, Oligocene, Byram, COOKE & CUSHMAN Prof. Papers **129 E**.

†*Triloculina antiqua* **sp. n.** p. 13 pl. i figs. 19, 20, PAALZOW Abh. nat.-hist. Ges. Nürnberg **22**.—*T. peroblonga* p. 143 pl. xxxiv fig. 5, *sculpturata* p. 143 pl. xxxiii figs. 4, 5, **spp. n.**, CUSHMAN Prof. Papers **129 F**.

*Tritaxilina caperata* (Brady) **var. n.** *atlantica* p. 79 pl. xv figs. 1 & 2, CUSHMAN Bull. U.S. nat. Mus. **104** pt. 3,

*Trochammina advena* **sp. n.** Tortugas, CUSHMAN Dept. Mar. Biol. Carnegie Inst. **17** p. 20 pl. i figs. 2–4.—*T. moniliformis* **sp. n.** Antarctic, HERON-ALLEN & EARLAND "Terra Nova" Exped. Zool. **6** No. 2 p. 112 pl. iii figs. 18–23.

†*Trocholina conica* for *Involutina c.* Schlumb. and other forms, PAALZOW Abh. nat.-hist. Ges. Nürnberg **22** p. 10 pl. i figs. 4–7.

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[Vacant.]

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*Monocystis naidis*, notes on, VOSS Arch. Protistenk. **44** pp. 214–218 pl. xi.

*Pyxinia anobii* **sp. n.**, stages in life-cycle, distinctive characters of species of this genus, VINCENT Parasitol. **14** pp. 299–306 5 text-figs.

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*Coccidium anguillae* **sp. n.**, intestine of eel, phases of life-cycle, LÉGER & HOLLANDE C.R. Acad. Sci. **175** pp. 999–1002 10 text-figs.—*C. debliecki* Douwes, correct name for the *Coccidium* of the pig, NIESCHULZ Centralbl. Bakt. Abt. 1 **88** Orig. p. 380.—*C. d.*, correct specific name for the type from pig (synonn. *suis*, *brumpti*), CAUCHEMEZ Bull. Soc. Path. exot. **15** p. 160.—*C. falciforme* & *stiedae*, both from *Mus decumanus*, comparison, RUDOVSKY Centralbl. Bakt. Abt. 1 **87** Orig. pp. 427–438 1 pl. —*C. pfeifferi*, of pigeons, life-cycle, NIESCHULZ Arch. Protistenk. **44** pp. 71–82 pl. iv.—*C. tropidonoti* **sp. n.** & *C. cystis felleae* Debais., phases of life-cycle in *Tropidonotus* GUYÉNOT NAVILLE & PONSE Rev. Suisse Zool. **30** pp. 115–157 pls. iii & iv.

*Eimeria* vide *Coccidium*.

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*Pseudoklossia* (?) *patellae* & *chitonis*, multiplication and gametogony, DEBAISIEUX Cellule **32** pp. 231–246 1 pl.

(c) **Haemosporidia.**

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*Haemogregarina cynomolgi* **var. n.** *papio*, LEGER & BÉDIER C.R. soc. Biol. **87** pp. 933 & 934.—*H. elliptica* **sp. n.**, from a child, SERGENT SERGENT & PARROT Bull. Soc. Path. exot. **15** pp. 193–197 9 text-figs.—*H. gallica* **sp. n.**, in case of pernicious anaemia, comparison with other human forms, NOC Bull. Soc. Path. exot. **15** pp. 936–943 1 text-fig.—*H. aequatorialis* **sp. n.**, also from man, compared with other forms, NATTAN-LARRIER T.c. pp. 943–947.—*H. procteri* from *Phyllodactylus* p. 827 pl. lxxiv figs. 1–3, *percomsi* from *Agama* p. 828 figs. 4–8, **spp. n.**, SHORTT Ind. J. Med. Res. **9.**

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*Spironema* **gen. n.** (Microsporidia), *octospora* **sp. n.**, Dipterous larvae, LÉGER & HESSE C.R. Acad. Sci. **174** p. 328 text-figs. 4 & 11.

*Thelohania reniformis* **sp. n.** from *Protospirura*, diagnosed, KUDO & HETHERINGTON J. Parasitol. **8** pp. 129–132 30 text-figs.

*Toxonema* **gen. n.** (Microsporidia) *vibrio* **sp. n.**, Dipterous larvae, LÉGER & HESSE T.c. p. 328 text-figs. 2 & 12.

*Zschokkella rovignensis* **sp. n.** from *Scorbaena*, life-cycle, NEMECZEK Arch. Protistenk. **45** pp. 390 & 400 pl. x.

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*Triactinomyxon magnum* **sp. n.** from *Limnodrilus*, GRANATA Monit. zool. Ital. **33** pp. 174–179.

### (f) Sarcosporidia.

*Sarcocystis bubalis* p. 9 pl. i figs. 1–4, *woodhousi* p. 12 figs. 5–8, **spp. n.**, from antelopes, DOGIEL Sci. Res. Zool. Exped. Brit. E. Afr. 1914 **1** No. 8.

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*Bertramia beauchampi* **sp. n.** from *Conochilus*, life-cycle, STEMPELL Arch. Protistenk. **43** pp. 355–360 18 text-figs.

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*Blastocystis*, cultivation, morphology, types, *B. gemmagina, sporogina*, **spp. n.**, p. 219 pl. i, LYNCH Amer. J. trop. Med. **2**.—*B.*, different types, fuller account of, *id.* T. c. pp. 539–549 4 pls,

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*Astasia* **sp.** from *Trilobus gracilis*, note on, NIESCHULZ Zool. Anz. **54** p. 137 3 text-figs.

*Bernardinella bipyramidata* **gen.** et **sp. n.**, PASCHER Arch. Protistenk. **44** pp. 405 & 406 fig. 13.

*Bodo parvulus* **sp. n.**, SECKT Bol. Ac. nac. Ci. **25** p. 452 text-fig. 26.—*B. portuensis* & *muris* **spp. n.**, occurrence, morphology, division, MELLO, PINTO NUNES & LIMA RIBEIRO C.R. soc. Biol. **87** pp. 699–701.

*Bommeria viridis* **gen.** et **sp. n.** Kufferath, PASCHER Arch. Protistenk. **44** p. 130 text-fig. 12.

*Calycomonas ovalis* **sp. n.** Barents Sea, WULFF Wiss. Meeresunters. Abt. Helgoland N. F. **13** p. 111 fig. 20.

*Carteria oliveri* **sp. n.** West, PASCHER Arch. Protistenk. **44** p. 122 text-fig. 3. —*C. phaseolus, excentrica* **spp. n.** Printz, PASCHER Arch. Protistenk. 45 pp. 264, 265 text-figs. 1, 2.

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*Chlorotriangulum minutum* **gen.** et **sp. n.** Kufferath, PASCHER T. c. p. 141 text-fig. 10.

*Chromulina freiburgensis* text-fig. 1, *ovaloides* p. 156, *rotunda, sphaerica, minuta, magna, zartensis* p. 157, *elegans, dubia grandis* p. 158, *minima* p. 159, **spp. n.**, Black Forest, DOFLEIN Zool. Anz. **53**.—*C. smaragdina* **sp. n.**, metabolism, light-effects of chromatophores, GICKLHORN Arch. Protistenk. 44 pp. 219–226 3 text-figs.

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*Diceras chodati* **gen.** et **sp. n.** Reverdin, PASCHER Arch. Protistenk. **44** p. 140 text-fig. 8a.

*Dinobryon elegans, urceolatum, campanuliforme* **spp. n.** Reverdin, summary, PASCHER Arch. Protistenk. **44** p. 137 fig. 5.—*D. pediforme* **sp. n.** for *D. cylindricum* var. *p.* Lemm. p. 33 fig. 10a, STEINECKE Schr. physik.-ökon. Ges. **56**.

*Embadomonas sinensis* Faust & Wassell, distinctions from *E. intestinalis*, FAUST J. Parasitol. **9** pp. 33 & 34 pl. vi.

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*Entosiphon ovatum* **form. n.** *major*, SECKT Bol. Ac. nac. Ci. **25** p. 483 text-fig. 94.

*Euglena acus* **form. n.** *hyalina* p. 466, *E. ehrenbergii* **var. n.** *brevis* p. 470, SECKT Bol. Ac. Nac. Ci. **25**.

*Eutrichomastix* sp. from intestine of *Calotes*, cytology and division, MELLO C.R. Soc. Biol. **87** pp. 1036–1038 1 text-fig.

*Giardia* vide *Lamblia*.

*Gigantomonas* **gen. n.** (*Tetramitidae*) *herculea* **sp. n.** from *Hodotermes*, DOGIEL Sci. Res. Zool. Exped. Brit. E. Afr. **1** No. 2 p. 47 figs. 8–12.

*Herpetomonas muscae-domesticae*, morphology, cultivation, GLASER J. Parasitol. **8** pp. 99–108 pl. xi.—*H.* vide *Leptomonas*.

*Hyalobryon cylindricum* **sp. n.** Reverdin, PASCHER Arch. Protistenk. **44** p. 138 fig. 6.

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*Lepocinclis pyriformis* **sp. n.** Kufferath, PASCHER Arch. Protistenk. **44** p. 142 fig. 9.

*Leptomonas funtumiae* **sp. n.** from Apocynid plants, FRANCHINI Bull. Soc. Path. exot. **15** pp. 109–113 1 text-fig.—*L. graphomyiae* p. 974 text-fig. 1, *anthomyiae* p. 975 fig. 2, from Muscidae, FRANCHINI T.c.—*L. hemidactyli* **sp. n.** cytology, MELLO & SUCTANCAR T.c. pp. 795–797 1 fig.—*L. lepto-trypanoides* **sp. n.** from a fly (*Dioctria*), morphology and division, HOLLANDE Arch. Zool. exp. **61** N. et R. pp. 29–34 18 text-figs. —*L. xenopi* from clawed frog p. 334, *terricolae* from soil p. 335, *brassicae* from cabbage p. 335 **spp. n.**, FANTHAM S. Afr. J. Science **19**.

*Lobomonas bernardinensis* **sp. n.** Chodat, PASCHER Arch. Protistenk. **44** p. 401 fig. 5.

*Mallomonas genevensis*, *pascheri* & *minima* **spp. n.** Rehfous, diagnoses and occurrence, PASCHER Arch. Protistenk. **44** pp. 120 & 121 text-fig. 1.—*M. elongata* **sp. n.** Reverdin, PASCHER T.c. p. 135 text-fig. 3.

*Myxomonas* **gen. n.** *polymorpha* **sp. n.** from *Hodotermes* p. 52 figs. 13–44, DOGIEL Sci. Res. Zool. Exped. Brit. E. Afr. **1** No. 2.

*Ochromonas fragilis* p. 161 *pigmentata*, *vasocystis*, *vagans*, *stellaris* fig. 4 p. 163, *elegans*, *perlata* p. 164, *ovalis* p. 165 **spp. n.** Black Forest, DOFLEIN Zool. Anz. **53**.—*O. granularis* Dofl., morphology, biology, division, DOFLEIN Arch. Protistenk. **44** pp. 151–205 pls. vi–ix.

*Octomitus muris* **var. n.** *minor* p. 336, FANTHAM S. Afr. J. Science **19**.

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*Platymonas tetrathele* **gen.** et **sp. n.** West, PASCHER Arch. Protistenk. **44** p. 123 text-fig. 4.

*Pseudochromulina* **gen. n.** (Chrysomonadina) *asymmetrica* sp. n. Black Forest, DOFLEIN Zool. Anz. **53** p. 160.

*Pseudomallomonas bernardinensis* **gen.** et **sp. n.** Chodat, PASCHER Arch. Protistenk. **44** p. 397 fig. 1.

*Pteromonas takedana* **sp. n.** West, PASCHER T.c. p. 126 text-fig. 8.

*Rhodomonas rubra* **sp. n.** Lake Lunz, GEITLER Intern. Rev. Hydrobiol. **10** p. 684 text-figs. c, d.

*Sphenochloris* **gen. n.** (Chlamydomonadina) *printzii* **sp. n.**, PASCHER Arch. Protistenk. **45** p. 267 text-fig. 6.

*Sphenomonas decemlineata* **sp. n.** p. 478 text-fig. 83, SECKT Bol. Ac. Nac. Ci. **25**.

*Styloceras longissimus* **gen.** et **sp. n.** Reverdin, PASCHER Arch. Protistenk. **44** p. 140 text-fig. 8b.

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*Tetramitus*, regarded as a stage in the life-cycle of a coprozoic Amoeba. BUNTING Proc. Nat. Acad. Sci. **8** pp. 294–300 1 fig.

*Trachelomonas alata* p. 476 text-fig. 78, *bonariensis* p. 476 fig. 79 **spp. n.** Argentina, SECKT Bol. Ac. Nac. Ci. **25**.—*T. bernardinensis* Vischer p. 401, *margaritifera*, *cribrum*, *amphora*, *kufferathi*, *torleyi*, *ovoides*, *elegans*, *umbilicophora* Conrad pp. 402-405 figs. 8–12, **spp. n.**, PASCHER Arch. Protistenk. **44**. —*T. hystrix* **sp. n.** Teiling, *inconstans* **sp. n.** Carter, PASCHER op. cit. **45** p. 269 figs. 8 & 9.—*T. rasumowskoensis* p. 291 text-fig. 4, *aculeata* p. 292 fig. 5, *furcata* p. 292 figs. 1–3, **spp. n.** Volga, DOLGOFF Russ. hydrobiol. Zs. **1**.—*T.* spp. originally described by Swirenko [*vide* Zool. Rec. **1914** No. 330], notes on, PASCHER Arch. Protistenk. **45** pp. 431–439 2 text-figs.

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*Trichomonas flagelliphora* **sp. n.** from guinea-pig described, FAUST Arch. Protistenk. **44** pp. 115–118 pl. v.—*T.* (*Tetratrichomonas*) *termitis* p. 45 figs. 1, 2, 4, 5 *macrostoma* p. 46 figs. 3, 6, 7, **spp. n.**, DOGIEL Sci. Res. Zool. Exped. Brit. E. Africa **1** No. 2.—*T.* cultivation, question of identity of *T. buccalis* & *vaginalis*, LYNCH Amer. J. trop. Med. **2** pp. 531–538.

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*Uroglenopsis apiculata* **sp. n.** Reverdin, PASCHER Arch. Protistenk. **44** p. 135 fig. 4.

*Waskia belostomae* **sp. n.**, BRUG Bull. Soc. Path. exot. **15** p. 134 text-fig. 2.

## (b) Silicoflagellata.

[Vacant.]

## (c) Dinoflagellata.

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# III. PORIFERA OR SPONGIDA

ARRANGED BY

H. M. WOODCOCK, D.Sc. (Lond.).

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# IV. COELENTERATA

ARRANGED BY

A. KNYVETT TOTTON.

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†*Aulopora timorica* **sp. n.**, GERTH Jaarb. Mijnwez. Nederl. **49** p. 16.

†*Chaetetes petri* **sp. n.** Cretac. Tripolitania, ZUFFARDI-COMERCI Mem. Cart. geol. Ital. **8** p. 10 figs.

†*Cladochonus magnus* **sp. n.** fig. GERTH Jaarb. Mijnwez. Nederl. **49**, p. 16.

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†*Brachycyathus parvus* **sp. n.** Danien p. 221 figs., NIELSEN Comm. Paléont. Mus. Geol. Copenhagen **19**.

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†*Dictyaraea octopartita* figs., CHECCHIA-RISPOLI **22**.

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†*Epitrochus vermiformis* **sp. n.** Danien p. 218 figs.; *supracretacea*; *pusillus* p. 219 figs., NIELSEN Comm. Paléont. Mus. Geol. Copenhagen **19**.

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# V. ECHINODERMA

ARRANGED BY

H. B. PRESTON.

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*Genocidaris*, CLARK **33** p. 114.—*G.*, MORTENSEN **136** pp. 142, 145.

†*Gibbaster* with *G. mengaudi* [**? sp. n.**] Upper Cretaceous Spain, LAMBERT Ann. soc. Linn. Lyon **67** pp. 14–15 pl. ii figs. 13, 15.

†*Gitolampas*, CHECCHIA-RISPOLI **31** p. 17.

†*Gitolampopsis* **sec. n.** with *G. lamberti, zuffardii* [**? spp. n.**] Cretaceous Tripoli, CHECCHIA-RISPOLI Mem. Com. geol. Ital. **8** pp. 18–21 pls. vii–ix.

†*Globator*, CHECCHIA-RISPOLI **31** p. 15.

†*Glyphocyphus*, LAMBERT **114** p. 6.

†*Goniopygus*, ADKINS **1** p. 102.—*G.*, CHECCHIA-RISPOLI **31** p. 12.

†*Grasia*, FAURE-MARGUERIT **62** p. 31.

*Heliocidaris*, MORTENSEN **136** p. 174.

†*Hemiaster* with *H. berkeyi* **sp. n.** Cretaceous W. Indies, JACKSON Carnegie Inst. Pub. **306** p. 73 pl. xii fig. 10. —*H. cottreaui, micranthus* [**? spp. n.**] Upper Cretaceous Spain, LAMBERT Ann. soc. linn., Lyon **68** p. 15 pls. ii figs. 16, 17; iii figs. 12, 13.—*H.* with *H. mancus* [**? sp. n.**] Upper Cretaceous Spain, LAMBERT Ann. soc. linn. Lyon **67** pp. 15–16 pl. iii fig. 14.—*H.* with *H. paronai* [**? sp. n.**] Cretaceous Tripoli, CHECCHIA-RISPOLI Mem. Com. geol. Ital. **8** pp. 27–30 pls. vii–ix.—*H.* with *H. riovistae* **sp. n.** Cretaceous U.S.A., ADKINS Univ. Texas Bul. **1856** pp. 114–117 pls. vi fig. 4; viii figs. 2–3, 5.—*H. stahli* **sp. n.** Cretaceous Persia, FISCHER Beitr. Pal. Geol. Ost. Ung. **27** p. 251 pl. xxi fig. 11.—*H.* with *H.* (*Leucaster*) *tuberculatus* **sp. n.** Java, GERTH Samml. geol. Reichsmus **1** p. 508 pl. lii figs. 7, 7a.—*H.*, CHECCHIA-RISPOLI **28** p. 282 and **29** p. 91.—*H.*, LAMBERT **116** p. 23.—*H.*, MITCHELL **133** p. 285.—*H.*, OPPENHEIM **147.**

†*Hemipneustes zuffardii* [**? sp. n.**] Cretaceous Tripoli, CHECCHIA-RISPOLI Mem. Com. geol. Ital. **8** p. 30 pls. vii–ix. —*H.*, LAMBERT **14** p. 25.

†*Heteractechinus mengaudi* [**? sp. n.**] Upper Cretaceous Spain, LAMBERT Ann. soc. linn. Lyon **66** p. 9 pl. i figs. 14, 17.

†*Heteraster*, GILLET **77** p. 8.—*H.* LAMBERT **116** p. 16.

†*Heterodiadema*, CHECCHIA-RISPOLI **31** p. 6.

†*Hipponoë*, GERTH **75** p. 502.

†*Holaster similis* [? **sp. n.**] Cretaceous Spain, LAMBERT Trab. Mus. Nac. Ci. Nat. **28** p. 11 pl. ii fig. 7.—*H.*, ADKINS **1** p. 104.—*H.*, FISCHER **64.**

†*Holectypus cortesei* [? **sp. n.**] Cretaceous Sinai, CHECCHIA-RISPOLI Bol. Com. geol. Roma **47** p. 280 pl. i.—*H.*, ADKINS **1** p. 103.—*H.*, BERRY & STINGEWALD **12** p. 60.—*H.*, CHECCHIA-RISPOLI **29** p. 87 & **31** p. 14.—*H.*, LAMBERT **114** pp. 11–12 & **116** p. 11.

*Holopneustes*, MORTENSEN **136** pp. 143, 175.

†*Kleinia*, LAMBERT **113.**

*Laganum* with *L. joubini, retinens, L.* (?) *rullandi, L. versatile* **spp. n.** Indian Ocean, KOEHLER Ech. of Ind. Empire **9** pp. 83–110 pls. viii fig. 9; ix figs. 3, 6, 9, 10, 12, 13; x figs. 5, 6, 8, 9, 13; xii figs. 1–4; xiii figs. 2, 5, 8; xiv fig. 7; xv figs. 2, 3, 7.—*L.*, MORTENSEN **136** pp. 143, 179.

†*Laganum*, GERTH **75** p. 503.—*L.*, JACKSON **96** p. 46.

†*Lampadaster*, FOSSA-MANCINI **69.**

†*Lanieria*, JACKSON **96** p. 28.

†*Leiocidaris*, ADKINS **1** p. 101.

† *Linthia paronai* **sp. n.** Upper Cretaceous Tripoli, CHECCHIA-RISPOLI Bol. Com. geol. Roma **45** p. 112 figs. 4–6.—*L.*, CHECCHIA-RISPOLI **29** p. 91 & **31** p. 27.—*L.*, LAMBERT **12** p. 22.

†*Lovenia gregoryi* **sp. n.** Miocene Anguilla, LAMBERT Ann. Mag. Nat. Hist. **9** p. 589 pl. ix figs. 5, 6.—*L.*, GERTH **75** p. 516.

†*Lychnidius*, LAMBERT **114** p. 17.

*Lytechinus* with *L. panamensis* **sp. n.** Panama, MORTENSEN Studies of devel. larval forms Ech. Copenhagen **1921** p. 41 pl. vii fig. 4.—*L.*, CLARK **33** p. 110.

†*Macropneustes*, JACKSON **96** p. 84.

†*Maretia*, GERTH **75** p. 512.

†*Mariania*, STEFANINI **170a** pp. 140–143.

*Mellita*, CLARK **33** p. 119.

†*Mellita*, JACKSON **96** p. 52.

†*Metalia batheri* **sp. n.** Miocene Anguilla, LAMBERT Ann. Mag. Nat. Hist. **9** p. 590 pl. ix figs. 1–3.

†*Micraster* with *M. sphaerula, proclivis, coribericum, douvillei, santanderensis, cantaber* [? **spp. n.**] Upper Cretaceous Spain, LAMBERT Ann. soc. linn. Lyon **67** pp. 1–13 pls. ii figs. 13, 15; iii figs. 3, 5, 8–11.—*M.* with *M. sphaerula, proclivis, douvillei* [? **spp. n.**] Cretaceous Spain, LAMBERT Trab. Mus. Nac. Ci. Nat. **28** pp. 17–23 pls. i fig. 3; ii figs. 2, 3, 5.—*M.*, BRYDONE **20.**—*M.*, RAVN **155.**

*Notechinus novae-zealandiae* **sp. n.** New Zealand, MORTENSEN Videns. Medd. nat. For. Kjöbenhavn **73** pp. 143, 153 pls. vi figs. 7–10; viii figs. 4–5, 7–11.

†*Nucleolites lacunosus*, HAWKINS **89.**

†*Offaster*, LAMBERT **114** p. 25.

*Ogmocidaris* **gen. n.** *O. benhami* **sp. n.** New Zealand, MORTENSEN Videns. Medd. nat. For. Kjöbenhavn **73** pp. 142, 148 pls. vi figs. 3–6; vii figs. 1–2.

†*Opissaster*, LAMBERT **112** p. 22.

†*Orthopsis haugi* [? **sp. n.**] Cretaceous Spain, LAMBERT Trab. Mus. Nac. Ci. Nat. **28** p. 9 pl. i fig. 5.

*Paracentrotus lividus*, BALDWIN **4.**—*P. l.*, VLÈS **179.**—*P.*, BRACHET **18.**

†*Parapygus*, JACKSON **96** p. 56.

†*Paraster*, JACKSON **96** p. 74.

†*Pedina*, FAURE-MARGUERIT **62** p. 32.

†*Pedinopsis*, ADKINS **1** p. 102.

†*Peltastes*, ADKINS **1** p. 102.—*P.*, FAURE-MARGUERIT **62** p. 32.—*P.*, LAMBERT **114** p. 6.

†*Pericosmus*, STEFANINI **170a** p. 145.—*Pericosmos*, GERTH, **75** p. 507.

†*Periaster*, JACKSON, **96** p. 80.

*Peronella hinemoae* **sp. n.** New Zealand, MORTENSEN Videns. Medd. nat. For. Kjöbenhavn **73** pp. 143, 177 pls. vi. figs. 22, 23; vii figs. 31–35.—*P.* with *P. macroproctes, merguiensis* **spp. n.** Indian Oc., KOEHLER Ech. of Ind. Empire **9** pp. 110–122 pls. ix. figs. 11, 14; x figs. 1, 10–12; xiii figs. 4, 13; xv figs. 8, 11.

†*Peronella mirabilis* **sp. n.** Eocene W. Indies, JACKSON Carnegie Inst. Pub. **306** p. 47 pl. ix fig. 3.

†*Phyllobrissus*, LAMBERT **116** p. 11.

†*Phymosoma* with *P. pseudotiara* [? **sp. n.**] Upper Cretaceous Spain, LAMBERT Ann. soc. linn. Lyon **66** p. 7 pl. i figs. 1, 4.—*P.*, JACKSON **96** p. 25.

† *Plagiobrissus*, JACKSON **96** p. 83.

†*Plagiocidaris*, FAURE-MARGUERIT **62** p. 28.

†*Pleurechinus*, GERTH, **75** p. 501.

†*Pliotoxaster* with *P. paquieri* [? **sp. n.**] Lower Cretaceous Spain, LAMBERT Ann. soc. linn. Lyon **66** pp. 27–30 pl. iii figs. 6, 7.

*Plococidaris* **gen. n.** MORTENSEN Echin. Deutsch. Sudpolar Exped. **1909** p. 51. Genotype: *Cidaris bispinosa* Lamarck. [Accidentally omitted from previous records.]

†*Polydiadema* with *P. cantabrum* [? **sp. n.**] Lower Cretaceous Spain, LAMBERT Ann. soc. linn., Lyon **66** p. 5.—*P.*, LAMBERT **116** p. 9.

*Poriocidaris* **gen. n.** MORTENSEN, Echin. Deutsch. Sudpolar Exped. **1909** p. 53. Genotype: *Porocidaris purpurata* Wyv. Thomson. [Accidentally omitted from previous records.]

†*Porosoma*, LAMBERT **112** p. 21.

†*Prenaster*, JACKSON **96** p. 72.

†*Psammechinus mengaudi* [? **sp. n.**] Oligocene Spain, LAMBERT Trab. Mus. Nac. Ci. Nat. **28** p. 24 pl. i fig. 11.

†*Pseudasterostoma*, JACKSON **96** p. 68.

*Pseudechinus* with *P. variegatus* **sp. n.** New Zealand, MORTENSEN Videns. Medd. nat. For. Kjöbenhavn **73** pp. 143, 160 pls. vi figs. 11–15, 17–21; vii figs. 12–24.

*Pseudoboletia occidentalis* **sp. n.** West Indies, CLARK Bul. Lab. Nat. Hist. Iowa **9** No. 5 p. 115 pl. ii.

†*Pseudonucleus* [? **gen. n.**] with *P. malladai* [**sp. n.**] Upper Cretaceous Spain, LAMBERT Ann. soc. linn. Lyon **66** pp. 17–18 pl. ii figs. 8, 12.

†*Pseudopygaster* **gen. n.** Genotype *P. eos.* Lias Persia, HAWKINS Geol. Mag. **59** pp. 216–221.

†*Pseudopygasteridae* **fam. n.**, HAWKINS Geol. Mag. **59** p. 215.

†*Pyrina*, LAMBERT **114** p. 15.—*P.*, HOPPE **92** p. 77.

†*Rachiosoma*, CHECCHIA-RISPOLI **31** p. 11.

†*Rhabdocidaris*, CHECCHIA-RISPOLI **30** p. 72 & **32**.—*R.*, FAURE-MARGUERIT **62** p. 30.

*Rhaphidoclypeus*, KOEHLER **110** p. 66.

†*Rhynchopygus donetzensis* **sp. n.** Upper Cretaceous Russia, FAAS Ann. Soc. Paleont. Russie **2** pp. 65–84 pl. iii.

†*Salenia*, ADKINS **1** p. 103.—*S.*, CHECCHIA-RISPOLI **31** p. 9.—*S.*, JACKSON **96** p. 24.—*S.*, LAMBERT **114** p. 7.

†*Salmacis*, GERTH **75** p. 502.

†*Scagliaster*, FOSSA-MANCINI **69**.

*Schizaster*, SCHEURING **161** p. 146.

†*Schizaster cantaber* [? **sp. n.**] Nummulitic Spain, LAMBERT Ann. Soc. linn. Lyon **68** p. 22 pl. iii fig. 15.—*S.*, with *S. progoënsis* **sp. n.** Java, GERTH Samml. geol. Reichsmus **1** pp. 509–510 pl. lii figs. 2, 2A, 2B.—*S.*, JACKSON **96** p. 81.—*S.*, KOBER **107** p. 401.—*S.*, LAMBERT **113**.—*S.*, NÖRREGARD 142.—*S.*, STEFANINI **170a** pp. 146–148.

†*Schizobrissus*, LAMBERT **113**.

†*Scutella* with *S. forumjuliensis* **sp. n.** Miocene Italy, STEFANINI Pal. Ital. Pisa **25** pp. 135–136 pl. xiv [viii] figs. 1, 2.

†*Sismondia javana* **sp. n.** Java, GERTH Samml. geol. Reichsmus. **1** p. 502 pl. lxii figs. 4, 4A.—*S.*, JACKSON **96** p. 30.

†*Spatangomorpha paucituberculata* **sp. n.** Java, GERTH Samml. geol. Reichsmus **1** p. 513 pl. lii figs. 6, 6A.

†*Spatangus* with *S. seccoi* **sp. n.** Miocene Italy, STEFANINI Pal. Ital. Pisa **25** p. 138 pls. xiv [viii] fig. 6; xv [ix] fig. 7.

*Sphaerechinus granularis*, LANDAUER **119**.

†*Stereocidaris sancti-martini* **sp. n.** Cretaceous France, VALETTE Bul. soc. sci. Yonne **74** p. 30.—*S.*, LAMBERT **114** p. 4.

*Strongylocentrotus droebachensis*, STEPHENSEN **171** p. 69.—*S. lividus*, GRAY **86**.—*S. l.*, LANDAUER **119**.—*S.*, SAMPSON **160**.—*S.*, SCHEURING **161** p. 145.

†*Studeria*, GERTH **75** p. 506.

*Stylocidaris* **gen. n.** MORTENSEN, Echin. Deutsch. Sudpolar Exped. **1909** p. 52. Genotype: *Cidaris affinis* Phil. [Accidentally omitted from previous records.]—*S.*, CLARK **33** p. 105.

†*Temnechinus*, GERTH **75** p. 501.

†*Temnopleurus*, GERTH **75** p. 501.

*Tretocidaris*, CLARK **33** p. 106.

*Tripneustes*, CLARK **33** p. 113.

†*Tylocidaris*, LAMBERT **114** p. 4.

†*Typocidaris* with *T. mengaudi* [? **sp. n.**] Upper Cretaceous Spain, LAMBERT Ann. soc. linn. Lyon **66** pp. 2–3 pl. i figs. 5, 9.—*T.*, FAURE-MARGUERIT **62** p. 29.

†*Zuffardia*, CHECCHIA-RISPOLI **29** p. 88 & **31** p. 21.

ASTEROIDEA.

*Anasterias*, FISHER **66** p. 595.

*Asterias rubens*, PELSENEER **152.**—*A. glacialis*, DALCQ **46.**—*A.*, BOWEN **17.** *A.*, SCHEURING **161** p. 146.

*Asterina orthodon* **sp. n.** Hong Kong, FISHER Ann. Mag. Nat. Hist. **10** pp. 415–418 pl. x.—*A. gibbosa*, ZIRPOLO **186.**

*Calliaster elegans, regenerator* **spp. n.** Malaysia, DÖDERLEIN Bijdr. Dierk. Amsterdam **1922** pp. 47–51.

*Coelasterias*, FISHER **66** p. 598.

†*Comptonia wintoni* **sp. n.** Cretaceous U.S.A., ADKINS Univ. Texas Bul. **1856** p. 97 pl. vii figs. 4–5.

*Cribrella*, SCHEURING **161** p. 147.

*Ctenodiscus*, NORDGÅRD **141** p. 12.—*C.*, SCHEURING **161** p. 149.

†*Eoactis*, SPENCER **166** p. 205.

*Evasterias*, KILBORN & MACLEOD **102** p. 323.

*Hippasteria*, SCHEURING **161** p. 148.

*Hymenaster*, SCHEURING **161** p. 148.

*Koehleraster* **gen. n.** type *Anasterias octoradiata*, Koehler, FISHER Ann. Mag. Nat. Hist. **10** p. 596.

*Leptoptychaster*, SCHEURING **161** p. 149.

*Luidia*, KILBORN & MACLEOD **102** p. 323.

*Lysastrosoma* **gen. n.** with *L. anthosticta* **sp. n.** Japan, FISHER Ann. Mag. Nat. Hist. **10** p. 590.

†*Metopaster*, ADKINS **1** p. 97.

†*Palasterina*, SPENCER **166** p. 219.

*Parastichaster*, FISHER **66** p. 596.

*Patiria miniata*, NEWMAN **140.**

*Pedasterias*, FISHER **66** p. 594.

†*Pentaceros americanus* **sp. n.** Cretaceous U.S.A., ADKINS Univ. Texas Bul. **1856** p. 99 pl. vii figs. 1–3.

†*Pentagonaster*, ADKINS **1** p. 95.

*Pisaster*, KILBORN & MACLEOD **102** p. 323.

*Pontaster*, SCHEURING **161** p. 149.

*Poraniomorpha*, SCHEURING **161** p. 148.

†*Prostaster constellatus*, BARROIS, PRUVOST & DUBOIS **5.**

*Pteraster*, SCHEURING **161** p. 147.

*Pycnopodia helianthoides*, KJERSCHOW-AGERSBORG **105.**—*P.*, KILBORN & MACLEOD **102** p. 323.

†*Schuchertia* with *S. wenlocki* **sp. n.** Wenlockian Scotland, SPENCER Pal. Soc. London **5** pp. 208–218 pls. xiv figs. 5–6; xv figs. 2–4.

*Solaster*, SCHEURING **161** p. 147.

*Stichorella*, FISHER **66** p. 597.

OPHIUROIDEA.

*Amphiactis*, KOEHLER **109** p. 204.

*Amphilepis* with *A. remittens* **sp. n.** Malaysia, KOEHLER Bul. U. S. Nat. Mus. **5** No. **100** pp. 202–203 pl. lxix figs. 7, 8.—*A.*, BROCH **19** p. 63.

*Amphilimna multispina* **sp. n.** Mallaysia, KOEHLER Bul. U. S. Nat. Mus. **5** No. **100** pp. 183–186 pls. lxi figs. 4–9; xcvi fig. 7.

*Amphiodia* with *A. debita* **sp. n.** Malaysia, KOEHLER Bul. U. S. Nat. Mus. **5** No. **100** pp. 167–169 pl. lxix figs. 3, 4.—

*A. destinata* sp. n. Southern Ocean, Koehler Austr. Ant. Exp. 1911–14 Sci. Repts. Zool. **8** pp. 32–34 pl. lxxix figs. 4–7.—*A.*, Campbell **22.**

*Amphiophiura* with *A. canaliculata, fastigiata, spatulifera* spp. n. Malaysia, Koehler Bul. U. S. Nat. Mus. **5** No. **100** pp. 357–369 pl. lxxxii. figs. 1–8, 10–13. —*A. relegata* sp. n. Southern Ocean, Koehler Austr. Ant. Exp. 1911–14 Sci. Repts. Zool. **8** pp. 57–59 pl. lxxxviii figs. 1–7.

*Amphiopholis* with *A. loripes* sp. n. Malaysia, Koehler Bul. U. S. Nat. Mus. **5** No. **100** pp. 163–166 pl. lxviii figs. 4, 5.—*A.*, Clark **35.**

*Amphioplus* with *A. legatus, conductus, lucidus, luctator* spp. n. Malaysia, Koehler Bul. U. S. Nat. Mus. **5** No. **100** pp. 169–183 pls. lxvii figs. 1–6; lxviii figs. 1–3, 6–10; xcvi figs. 9–10.

*Amphiura* with *A. commutata, dejecta, demissa* spp. n. Malaysia, Koehler Bul. U. S. Nat. Mus. **5** No. **100** pp. 151–162 pls. lxvi figs. 1–5; lxix figs. 1, 2; xcvi fig. 6.—*A.* with *A. deficiens* sp. n. Southern Ocean, Koehler Austr. Ant. Exp. 1911–14 Sci. Repts. Zool. **8** pp. 27–31 pls. lxxix figs. 8–12; lxxx figs. 1–8; lxxxi figs. 10–12.—*A.*, Broch **19.**—*A.*, Clark **35.**—*A. squamata*, Mercier **131.** —*A.*, Scheuring **161** p. 151.

*Asteronyx*, Koehler **108** p. 10.—*A.*, Koehler **109** p. 34.

*Astrodia bispinosa* sp. n. Pacific, Koehler Austr. Ant. Exp. 1911–14 Sci. Repts., Zool. **8** pp. 12–15 pl. lxxvi.

*Astroceras*, Koehler **109** p. 33.

*Astrocharis*, Koehler **109** p. 32.

*Astrophytum*, Clark **35.**

*Astrothamnus deficiens* sp. n. Malaysia, Koehler Bul. U. S. Nat. Mus. **5** No. **100** p. 35 pl. i figs. 1–10.

*Astrotoma*, Koehler **108** p. 9.

*Bathypectinura*, Koehler **109** p. 342.

*Cryptopelta tecta* sp. n. Malaysia, Koehler Bul. U. S. Nat. Mus. **5** No. **100** p. 350 pl. lxxviii figs. 1, 2.

*Gorgonocephalus*, Campbell **22.**—*G.*, Scheuring **161** p. 151.

*Homalophiura*, Koehler **108** pp. 53–57.—*H.*, Koehler **109** pp. 386–388.

*Neoplax crassipes* sp. n. Malaysia, Koehler Bul. U. S. Nat. Mus. **5** No. **100** p. 22 pl. ii figs. 1–3.

*Ophiacantha* with *O. sollicita* sp. n. Maria Isd., Koehler Austr. Ant. Exp. 1911–14 Sci. Repts., Zool. **8** pp. 12 15 pl. lxxix figs. 1–3.

*Ophiactis amator* sp. n. Southern Ocean, Koehler Austr. Ant. Exp. 1911–14 Sci. Repts. Zool. **8** pp. 34–36 pl. lxxxi figs. 1–6.—*O.* with *O. definita* sp. n. Malaysia, Koehler Bul. U. S. Nat. Mus. **5** No. **100** pp. 186–195 pl. lxiv figs. 1, 2, 7.—*O.*, Broch **19** p. 65. —*O.*, Clark **35.**

*Ophialcaea*, Koehler **109** p. 85.

*Ophiarachna quinquespinosa* sp. n. Malaysia, Koehler Bul. U. S. Nat. Mus. **5** No. **100** p. 331 pl. vii figs. 1–3.

*Ophiarachnella*, Koehler **109** pp. 339–342.

*Ophiarthrum*, Koehler **109** p. 331.

*Ophiernus*, Koehler **109** p. 440.

*Ophientrema*, Koehler **109** pp. 85–88.

*Ophiobyrsella intorta* sp. n. Malaysia, Koehler Bul. U. S. Nat. Mus. **5** No. **100** pp. 27–29 pls. iv figs. 2–5; xcii fig. 4.

*Ophiocamax applicatus* sp. n. Maria Isd., Koehler Austr. Ant. Exp. 1911–14 Sci. Repts. Zool. **8** p. 17.—*O.*, Clark **35.**—*O.*, Koehler **19** p. 147.

*Ophiocanops* gen. n. with *O. fugiens* sp. n. Malaysia, Koehler Bul. U. S. Nat. Mus. **5** No. **100** pp. 24–27 pl. ii figs. 4–17.

*Ophiocantha* with *O. benigna, graphica, legata, pacata, severa* spp. n. Malaysia, Koehler Bul. U. S. Nat. Mus. **5** No. **100** pp. 45–63 pls. xvi figs. 5, 6; xvii figs. 1–5; xviii figs. 1–5.

*Ophiocentrus* with *O. vexator* sp. n. Malaysia, Koehler Bul. U. S. Nat. Mus. **5** No. **100** pp. 196–201 pls. lxii figs. 1–5; xcvi fig. 11.

*Ophioceramis*, Koehler **109** p. 421.

*Ophioceres* **gen. n.** with *O. incipiens* **sp. n.** Southern Ocean, KOEHLER Austr. Ant. Exp. 1911–14 Sci. Repts. Zool. **8** p. 47 pl. lxxxiv figs. 1–6, 13, 14.

*Ophiochiton*, KOEHLER **109** p. 305.

*Ophiocirce*, KOEHLER **109** p. 436.

*Ophiocnemis*, KOEHLER **109** p. 296.

*Ophiocryptus*, CAMPBELL **22.**

*Ophiocoma*, CLARK **35.**—*O.*, KOEHLER **109** pp. 319–329.

*Ophiocomina*, BROCH **19** p. 68.—*O.*, KOEHLER **109** p. 316.

*Ophiocopa singularis* **sp. n.** Malaysia KOEHLER Bul. U. S. Nat. Mus. **5** No. **100** pp. 98–100 pl. xxi figs. 4, 8, 9.

*Ophiocten*, KOEHLER **108** p. 82 & **109** p. 388.—*O.*, NORDGÅRD **141** p. 12.

*Ophiodaces* **gen. n.** with *O. inanis* **sp. n.** Southern Ocean, KOEHLER Austr. Ant. Exp. 1911–14 Sci. Repts. Zool. **8** pp. 24–26 pls. lxxviii figs. 6–8; lxxxiii fig. 7.

*Ophiodera*, KOEHLER **109** pp. 20–22.

*Ophioderma*, CAMPBELL **22.**—*O.*, CLARK **35.**

*Ophiodictys* **gen. n.** with *O. uncinatus* **sp. n.** Malaysia, KOEHLER Bul. U. S. Nat. Mus. **5** No. **100** pp. 42–45 pl. vii figs. 4–11.

*Ophiodiplax*, KOEHLER **108** p. 15.

*Ophiodoris*, KOEHLER **109** pp. 310–311.

*Ophiogema* **gen. n.** with *O. punctata* **sp. n.** Malaysia, KOEHLER Bul. U. S. Nat. Mus. **5** No. **100** pp. 67–70 pls. xxix figs. 7–9; xcii fig. 5.

*Ophiogymna* with *O. funesta* **sp. n.** Malaysia, KOEHLER Bul. U. S. Nat. Mus. **5** No. **100** pp. 284–296 pls. xliv figs. 1–7; ciii fig. 9.

*Ophiogyptis*, KOEHLER **109** p. 40.

*Ophiolepis*, KOEHLER **109** p. 434.

†*Ophiolepis bertrandi* **sp. n.** Rhaetian France, LANQUINE Bull. Soc. géol. France **16** pp. 88, 96 pl. i.—*O.*, LANGE **120** p. 166.

*Ophiolimna*, KOEHLER **109** pp. 64–66.

*Ophiolipus*, KOEHLER **109** p. 421.

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*Ophiomedea discrepans* **sp. n.** Malaysia, KOEHLER Bul. U. S. Nat. Mus. **5** No. **100** pp. 95–98 pl. xxvi figs. 1–4.

*Ophiomelina* **gen. n.**, KOEHLER Bul. U. S. Nat. Mus. **5** No. **100** pp. 129–131.

*Ophiomidas*, KOEHLER **109** p. 434.

*Ophiomitra dives* **sp. n.** Malaysia, KOEHLER Bul. U. S. Nat. Mus. **5** No. **100** pp. 107–109 pls. x figs. 1–4; xciv fig. 2.

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*Ophiomyces*, KOEHLER **109** p. 41.

*Ophiomyxa*, CLARK **35.**—*O.*, KOEHLER **109** pp. 17–20.

*Ophionereis*, CAMPBELL **22.**—*O.*, CLARK **35.**—*O.*, KOEHLER **109** p. 310.

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*Ophiopholis*, BROCH **19.**—*O.*, KOEHLER **109** p. 195.—*O.*, SCHEURING **161** p. 151.

*Ophiophrixus confinis* **sp. n.** Malaysia. KOEHLER Bul. U. S. Nat. Mus. **5** No. **100** p. 30 pl. iii figs. 1–8.

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*Ophiopleura*, SCHEURING **161** p. 150.

*Ophioplinthaca* with *O. hastata* **sp. n.** Malaysia, KOEHLER Bul. U. S. Nat. Mus. 5 No. **100** pp. 131–147 pls. xviii figs. 6–8; xciv fig. 7.

*Ophioplocus*, CAMPBELL 22.—*O.*, KOEHLER **109** p. 435.

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*Ophiothela*, KOEHLER **109** pp. 297–298.

*Ophiothrix* with *O. bellax, cumulata, deceptor, pavida, prostrata, signata* **spp. n.** Malaysia, KOEHLER Bul. U. S. Nat. Mus. 5 No. **100** pp. 205–283 pls. xxxvi figs. 1, 2; xxxix figs. 1, 2, 6, 7; xlvii figs. 1, 3; l figs. 2–8; li figs. 1–5; lii figs. 1, 2; lviii figs. 1, 2; xcvii figs. 4, 6; xcviii fig. 3.—*O.*, BROCH **19** p. 67.—*O.*, CAMPBELL **22.**—*O.*, CLARK **35.**—*O.*, SCHEURING **161** p. 151.

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*Ophiozonoida obscura* **sp. n.** Malaysia, KOEHLER Bul. U. S. Nat. Mus. 5 No. **100** pp. 431–434 pl. lxxx figs. 8, 9, 13.

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*Ophiurodon*, KOEHLER **109** pp. 351–352.

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*Stegophiura* with *S. sterilis* **sp. n.** Malaysia, KOEHLER Bul. U. S. Nat. Mus. 5 No. **100** pp. 369–373 pl. lxxxiii figs. 8–11.

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*Antedon*, SCHEURING **161** p. 151.

†*Antedon*, VALETTE **174**.

†*Balanocrinus* with *B. mexicanus* **sp. n.** Upper Cretaceous Mexico, SPRINGER Proc. U. S. Nat. Mus. Washington **61** p. 2 pl. i figs. 1–11.—*B.*, VALETTE **174**.

†*Camptocrinus*, EHRENBERG **56** p. 281.

*Catoptometra magnifica* var. *minor* **var. n.** Japan, GISLÉN Upsala Vet. Soc. Acta **5** No. 6 p. 65 figs.

*Clarkometra* **gen. n.** (*Perometrinae*), *elegans* **sp. n.** Japan, GISLÉN Upsala Vet.-Soc. Acta **5** No. 6 pp. 142–143 figs.

*Comantheria grandicalyx* var. *flagellipinna* **var. n.** Japan, GISLÉN Upsala Vet.-Soc. Acta **5** No. 6 p. 41 fig.

*Comanthus* (*Vania*) *parvicirra* β *comanthipinna* **subsp. n.** Japan, GISLÉN Upsala Vet.-Soc. Acta **5** No. 6 p. 51 figs.

*Comaster delicata* var. *grandis* **var. n.** Japan, GISLÉN Upsala Vet.-Soc. Acta **5** No. 6 p. 32 figs.

*Comatella brachycirra* **sp. n.** Japan, GISLÉN Upsala Vet.-Soc. Acta **5** No. 6 p. 13 figs.

*Commissia peregrina* var. *magnifica*, *ignota* var. *minuta* **varr. n.** Japan, GISLÉN Upsala Vet.-Soc. Acta **5** No. 6 pp. 21, 25 figs.

†*Craspedocrinus schmidti* **gen.** & **sp. n.** Devon. Germany, DAHMER Jahrb. geol. Landesanst. **40** T.2 p. 292 pl. xvi figs. 4–8.

*Crinoidea*, CLARK **36**.—*C.*, EHRENBERG **57**.

†*Crinoidea Flexibilia*, List of British species, BATHER **8**.—*C.*, YAKOWLEV **184**.

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†*Dendrocrinus*, COX **40**.—*D.*, EHRENBERG **56** p. 275.

†*Diamenocrinus*, EHRENBERG **56** p. 276.

*Diodontometra* **gen. n.** (near *Charitometra*) *bocki* **sp. n.** Japan, GISLÉN Upsala Vet.-Soc. Acta **5** No. 6 pp. 121, 123 figs.

†*Encrinus*, ARTHABER, **3**.

†*Entrochus*, ARTHABER **3**; DIENER **53** p. 97.

*Eudiocrinus gracilis* var. *pulchellus* **var. n.** *E. lovéni* **sp. n.** Japan, GISLÉN Upsala Vet.-Soc. Acta **5** No. 6 pp. 69, 72 figs.

†*Eupachycrinus*, MORNINGSTAR **134** p. 154.

†*Glyptocrinus*, EHRENBERG **56** p. 274.

†*Herpetocrinus*, EHRENBERG **56** p. 280 **58**.

*Holopus rangii*, CLARK **36** p. 6.

†*Homocrinus*, EHRENBERG **56** p. 279.

*Isocrinus asteria*, CLARK **36** p. 6.

†*Isocrinus* with *I. parvus* **sp. n.** Cretaceous Australia, HOWCHIN Trans. R. Soc. S. Aust. **45** pp. 1–4.

†*Lophocrinus*, WEIGELT **181**.

†*Mariacrinus*, EHRENBERG **56** p. 273.

†*Marsupites*, DIBLEY & FAGG **52**.

†*Melocrinus pulcher* and var. *annulifera* **var. n.** Devonian, SPRIESTERSBACH Jahrb. geol. Landesanst. **38** 1 pp. 440–447 pls. xxiv figs. 1–7; xxv figs. 1–8.

*Metacrinus nobilis* var. *tenuis* **var. n.** *interruptus* f. *ornatus* f. **n.** Japan, GISLÉN Upsala Vet.-Soc. Acta **5** No. 6 p. 147 figs.

†*Millericrinus*, FAURE-MARGUERIT **62** p. 27.

†*Pentacrinus* c.f. *subangularis* Miller, Lias descr. by SPRINGER in LEFFINGWELL U. S. Geol. Surv., Prof. papr. **109** p. 119.—*P.*, FABER **61**.

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†*Proteriocrinus*. [err. pro *Poterioc.*] DIENER **53** pp. 46, 97

*Psathyrometra wireni* **sp. n.** Japan, GISLÉN Upsala Vet.-Soc. Acta **5** No. 6 p. 138 figs.

†*Rhadinocrinus*, DAHMER **43.**

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*Stenometra dentata* **sp. n.** Japan, GISLÉN Upsala Vet.-Soc. Acta **5** No. 6 p. 115 figs.

†*Thallocrinus*, EHRENBERG **56** p. 279.

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†*Heliocrinus*, MANSUY **129.**

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†*Orophocrinus stelliformis*, BATHER **9.**

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H. M. WOODCOCK.

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NEMERTINEA.

[Vacant.]

MESOZOA.

[Vacant.]

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## CHAETOGNATHA, GASTROTRICHA, ROTIFERA.

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[Vacant.]

# VII. BRACHIOPODA AND BRYOZOA

BY

H. M. MUIR WOOD, M.Sc.

## (a) BRACHIOPODA

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### AETIOLOGY.

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†*Amphigenia eifliensis* **sp. n.** Devonian Germany, DÖRING Verh. nathist. Ver. Bonn. **76** 1920 p. 13.

†*Argyrotheca dalli* **sp. n.** Upper Eocene West Indies, COOKE Carnegie Inst. Pub. **291** 1919 p. 152.

†*Athyris acuminata* var. *asiatica* **var. n.** p. 44; *chitralensis* **sp. n.** p. 46; *chitralensis* vars. *pseudo-globularis*, *gentilis* **vars. n.** p. 47; *gurdoni* **sp. n.** p. 49; *hudlestoni* **sp. n.** p. 50 Devonian India, REED Paleont. Ind. **6** 2 1922.—†*A. eulkayensis* **sp. n.** Carboniferous China, MANSUY Mém. serv. géol. Indochine **6** 1 1919 p. 30.—†*A. globularis* **sp. n.** Devonian Tongking, MANSUY Mém. serv. géol. Indochine **8** 1 1921 p. 24.

†*Atrypa spinosa* var. *chitralensis* **var. n.** Devonian India, REED Paleont. Ind. **6** 2 1922 p. 54.

†*Aulacothyris dussaulti* **sp. n.** Jurassic Annam., MANSUY Mém. serv. géol. Indochine **7** 1 1920 p. 42.

†*Bifida problematica* **sp. n.** Devonian India, REED Paleont. Ind. **6** 2 1922 p. 108.

†*Blochmannella* **subgen. n.** type *Rhynchonella Frierenі* Jurassic Alsace, LEIDHOLD N. Jahrb. Min. Stuttgart **44** 1920 p. 356.

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†*Brooksina* **gen. n.** type *B. alaskensis* **sp. n.** Silurian Alaska, KIRK Proc. U.S. Nat. Mus. Washington **60** 1922 p. 5.

†*Camarophoria* ? *formosa* var. *martialis* **var. n.** Devonian India, REED Paleont. Ind. **6** 2 1922 p. 101.

†*Camarophoria tschernyschewi* var. *mutata* p. 102, *semiformosa* p. 103 **vars. n.**; *subplana* **sp. n.** p. 104 Devonian India, REED Paleont. Ind. **6** 2 1922.

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# VIII. MOLLUSCA

ARRANGED BY

H. B. PRESTON.

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†*Nodulus morgani* **sp. n.** Miocene, COSSMANN Essais pal. comp. Paris **1921** p. 315.

*Paludina* [*vide etiam Vivapara.*] *vivipara*, ARTOM **24** & **25.**—*P.*, HERFS **288** p. 557.

†*Paryphostoma dumasi* **sp. n.** Eocene France, COSSMANN Bul. soc. sci. nat. Nantes **5** p. 111.

†*Peringia dollfusi* **sp. n.** Tertiary, COSSMANN Essais pal. comp. Paris **1921** p. 323.

†*Planaxidae* with *Dalliella brusinai* **var. n.** *peyroti* Tertiary, COSSMANN & PEYROT Act. soc. linn. Bordeaux **73** pp. 317–319.

†*Rissoa* (*Cingula*) *plebeja*, *R.* (*Moerchiella*) *manzakiana*, **spp. n.**, Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 79.

†*Rissoidae*, PILSBRY **473** p. 380.

†*Rissoina agathostoma*, *R.* (*Zebinella*) *bureaui*, **spp. n.**, Eocene, France, COSSMANN Bul. soc. sci. nat. Nantes **5** pp. 113–114.—*R. podolica*, *guppyi*, *gaasensis* **spp. n.**, Tertiary, COSSMANN Essais pal. comp. Paris **1921** pp. 317–318.

*Temnotaia*, ANNANDALE **14.**

*Titanopoma*, POLIŃSKI **486.**

*Tropidophora*, CONNOLLY **132.**

†*Tuba* with *T. bearnensis* **sp. n.** Tertiary, COSSMANN & PEYROT Act. soc. linn. Bordeaux **73** pp. 178–180.

†*Turbella tenuilineata*, *inflexicosta*, **spp. n.**, COSSMANN Essais pal. comp. Paris **1921** p. 319.

†*Turbonitella* with *T. tuberculata* **sp. n.** Devon Germany, KIRCHNER Verh. nat. hist. Ver. Bonn **71** pp. 238–239.

*Valvata piscinalis*, STEUSLOFF **581.**—*V. macrostoma*, OLDHAM **444.**

†*Valvata schlosseri* **sp. n.** Miocene Spain, GOMÉZ Mem. Com. Inv. Pal. Madrid **30** p. 96.—*V.* (*Cincinna*) *hydrobiæformis* **sp. n.** Eocene France, COSSMANN Bul. Soc. Sci, nat. Nantes **5** p. 119.

*Valvatidae*, ANNANDALE **13** p. 135.

*Vivipara* [*vide etiam Viviparus* and *Paludina*] *bengalensis* with races *eburnea*, *colairensis* **n.** phase *incrassata* **n.** India, ANNANDALE & SEWELL Rec. Ind. Mus. Calcutta **22** pp. 267–278.—*V.* with *V. crassispiralis*, *microchætophora*, *micron*, **spp. n.**, N.E. India, ANNANDALE Rec. Ind. Mus. **22** pp. 543–552.—*V.* with *V. hendrici* **sp. n.** Sumatra, PRASHAD Rec. Ind. Mus. **22** pp. 479–483.—*V. contecta*, HOPWOOD **297.**—*V.*, GERMAIN **238.**—*V.*, MODELL **412** p. 177.

†*Vivipara* with *V. atavia* **sp. n.** India, ANNANDALE Rec. Geol. Surv. Ind. **51** pp. 362–363.

*Viviparidae*, ANNANDALE **10** & **13** p. 135.—*V.*, BAKER **36** p. 61.

†*Viviparidae*, ANNANDALE **10.**

†*Viviparus* [*Vide etiam Vivipara*] *carbonarius* **sp. n.** Carboniferous England, GARWOOD Geol. Mag. **59** p. 291.—*V. pantanellii* **nom. n.** for *Vivipara fuchsi*, Pantanelli; *V. oulchyensis* **nom. n.** for *Paludina intermedia*, Desh; *V. suevicus* **nom. n.** for *P. varicosa*, Broun emend. Krauss 1852, WENZ Nachrbl. D. Malak. Ges. **1919** p. 76.—*V. wichmanni* **sp. n.** Cretaceous Argentina, DOELLO-JURADO Physis B. Aires **5** p. 329.

LITIOPIDAE, ADEORBIIDAE, JEFFREYSIIDAE, SKENEIDAE, ASSIMINEIDAE, TRUNCATELLIDAE.

*Assiminia leptodonta* **sp. n.** Portuguese S. E. Africa, CONNOLLY Ann. Mag. Nat. Hist. **10** p. 122.

*Diala leithii*, TOMLIN **598.**—*D.*, DALL **165.**

†*Litiopidae*, PILSBRY **473** p. 376.

†*Skenia planorboides* **sp. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 81.

*Truncatella*, BOETTGER **65.**

HYDROBIIDÆ, TIARIDÆ, PLEUROCERIDÆ, PSEUDOMELANIIDÆ, NERINEIDÆ, CERITHIIDAE, VERMETIDÆ.

*Acrostoma* with *A. variabilis* **varr. n.** *laevis, semilaevigata, subspinata* India, ANNANDALE Rec. Ind. Mus. **22** pp. 559 562.

†*Alabina angustior* **sp. n.** Tertiary Santo Domingo, PILSBRY Proc. Acad. Nat. Sci. Philad. **73** p. 376.

*Amniccla* with *A. judayi* **sp. n.** Wisconsin, BAKER Nautilus **35** p. 19.—*A.*, BAKER **42.**—*A.*, WENZ 644.

*Amnicolidae*, BAKER **36** p. 60.

*Anculosa* with *A. clipeata, modesta, torrefacta, aldrichi, flexuosa, choccoloccoensis, brevispira, mimica, lirata, sulcata,* **spp. n.**, Alabama River Drainage, GOODRICH Geol. Surv. Alabama Mus. Papr. **6** pp. 1–57.

†*Bezanconia pupoidea* **sp. n.** Quaternary Peru, WOODS in BOSWORTH Geol. of Peru **1922** p. 89.

*Bythinella brevis persuturata* **subsp. n.** Pyrenees, BOFILL & OTHERS Pub. Inst. Cienc. Barcelona **1920–1921** (Estudi sobre la malacologia de les Valls Pirenaiques pt. vi) pp. 1020–1213.—*B.*, GERMAIN **237.**

†*Bithinia* [*vide etiam Bithynia* and *Bythinia*] *gouzensis* **sp. n.** Eocene France, COSSMANN Bul. soc. sci. nat. Nantes **5** p. 120.

†*Bithynia* [*vide etiam Bithynia* and *Bythinia*] *dunkeriana* **nom. n.** for *Paludina ovata* Dunk. WENZ Nachrbl. D. Malak. Ges. **1919** p. 69.

†*Bourguetia jacoti, escheri,* **spp. n.**, Mesozoic, ROLLIER Abh. Schw. Pal. Ges. **44** pp. 78–79.

†*Brachycerithium majus, lacrymigerum, clycoidale, ornatissimum, duplicornatum, pauciornatum, elegans, recticosta, minus,* (?) *seminudum, microstoma, intermedium, evolutum, carvajalensis* **gen. spp.** & **varr. n.** Trias Argentina, BONARELLI An. Minist. Ag. Sci. Geol. Buenos Aires **15** pp. 72–73.

*Bythinia* [*vide etiam Bithinia* and *Bithynia*] *leachi*, Shep., ASTRE **28.**—*B.*, GERMAIN **237.**—*B.*, WEBER **636** p. 484.

†*Bythinia gracilis subleachi* **var. n.** Tertiary Germany, GOTTSCHICK Arch. Moll. Frankfurt **54** p. 109.

†*Cerithiidae* with *Cerithium obesum ventricosior, o. harrisi* **varr. n.** Tertiary Santo Domingo, PILSBRY Proc. Acad. Nat. Sci. Philad. **73** pp. 369–376.—*C.* with *Cerithium* (*Vulgocerithium*) *provaricosum, C.* (*Ptychocerithium*) *sallomacense, bardiei, pseudo-crenatum, C.* (*Chondrocerithium*) *calculosum* var. *aequigraniferum, subrubiginosum; Rhinoclavis leognanensis, R.* (*Semivertagus*) *pupaeformis* varr. *Telescopium pseudoobeliscus* var. *spinatoconicum; Terebralia bidentatum* var. *percingulata; Pirenella inconstans* var. *transiens; Bittium subgranosum* var. *evolutum* **varr. n.** *B. benoisti, asperulatum, canejanense; Semibittium octoliratum duvergieri, pergranulosa, vasconiensis,* **spp. n.**; *Colinia bearnensis, degrangeri; Tenuicerithium imbricatarium; Hemicerithium vignali, stephanense; Potamides derelictus, persuturatus, benoisti; Escoffieria* ? *degrangei,* **spp.** & **varr. n.**, *Tympanotonus margaritaceus* **mut. n.** *bearnensis;* Tertiary, COSSMANN & PEYROT Act. soc. linn. Bordeaux **73** pp. 181 291.

†*Cerithiopsidae* with *C. vignali, merignacensis, sigmoidea, C.* (*Dizoniopsis*) *aquitaniensis; Newtoniella* (?) *degrangei; N.* (*Seila*) *cyrtogyra, cabanacensis; Laeocochlis* ? *inopinata,* **spp. n.**, Tertiary COSSMANN & PEYROT Act. soc. linn. Bordeaux **73** pp. 291–303.

*Cerithiopsis dispar* **sp. n.** Masatierra, ODHNER Nat. hist. of Juan Fernandez **3** 2 p. 223 figs.

†*Cerithiopsis nodosocostatus, C.* (*Seila*) *trisulcatus,* **spp. n.**, Pleistocene, Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 73.—*C. poisoti* **sp. n.** Eocene France, COSSMANN Bul. soc. sci. nat. Nantes **5** p. 100.

†*Cerithium bodenbenderi* **sp. n.** Lias Argentina, BEHRENDSEN Act. Acad. Ci. Cordoba **7** pp. 168 222.—*C. costaricensis* **sp. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 143.—*C. ferruginea, nigraquarum, dupasquieri,* **spp. n.**, Mesozoic, ROLLIER Abh. Schw. Pal. Ges. **44** pp. 86–89.—*C. inaequicostatum* **sp. n.** Cretaceous N. Zealand, WILCKENS Pal. Bul. Geol. Surv. N. Z. **9** p. 8.—*C. infranodatum, grillanum,* **spp. n.**, Tertiary Peru, SPIEKER Johns Hopkins Univ. Stud. Geol. **3** pp. 56–57.—*C. paytense* Tertiary; *C. negritosense, chatwini* Quaternary Peru, **spp. n.**, WOODS in BOSWORTH Geol. of Peru **1922** pp. 87–88.—*C.* (*Gourmyia* ?) *njalindungense, C.* (*Vertagus*) *merangianum, C.* (*V.* ?) *augsananum,* **spp. n.**, Java, MARTIN Samml. Geol. Reichsmus. Leiden **1** Abt 2 Heft 3 1921 pp. 469–470: *C.* (*Hemicerithium*) *hillegondae* **sp. n.** Java *op. cit.* Heft 4 1922 p. 471.—*C.* (*Tiaracerithium*) *vasseuri* **sp. n.** Eocene France, COSSMANN Bul. soc. sci. nat. Nantes **5** p. 92.—*C.* ? *ammonianum, quinquecinctum,* **spp. n.**, Lias, Germany, SCHNITTMANN Zs. D. geol. Ges. Berlin **74** p. 24.

†*Clavocerithium* **gen. n.** [*Cerithiidae*] Eocene France, COSSMANN Bul. soc. sci. nat. Nantes **5** p. 94.

†*Diastoma americanum* **sp. n.** Quaternary, WOODS in BOSWORTH Geol. of Peru **1922** p. 92.

†*Diastomidae* with *Diastoma ultimum* **sp. n.** Tertiary, COSSMANN & PEYROT Act. soc. linn. Bordeaux **73** pp. 313–317.

*Digoniostoma* with *D. textum* **sp. n.** Manipur, ANNANDALE Rec. Ind. Mus. **22** pp. 340–343.

*Digyreidum bourguignati*, Pal., ASTRE **28**.

†*Dinocochlea ingens* **gen. & sp. n.** Lower Cretaceous England WOODWARD Geol. Mag. **59** pp. 242–247.

†*Exochostoma cossmanni* **sp. n.** Eocene Nigeria, NEWTON Geol. Surv. Nigeria **3** p. 45.

†*Fasinus* (?) *legunitensis* **sp. n.** Tertiary Peru, WOODS IN BOSWORTH Geol. of Peru **1922** p. 86.

*Fenella*, DALL **163**.

†*Gonioconcha striata, striato-spinata, spinata* and var. *brachyspira, nodosa* and var., *evolutior,* **gen. spp. & varr. n.**, Trais, Argentina, BONARELLI An. Minist. Ag. Sec. Geol. Buenos Aires **15** p. 72.

†*Hydrobia calderoni, romani,* **spp. n.**, Miocene, Spain, GOMÉZ Mem. Com. Inv. Pal. Madrid **30** pp. 104–105.—*H. dalli* **nom. n.** Tertiary, WENZ Senckenbergiana Frankfurt a. M. **4** p. 6.—*H. serresi* **nom. n.** for *Paludina affinis*, Serres; *H. brusinai* **nom. n.** for *H.* ? *incerta*, Brus.; *H. hermitei* **nom. n.** for *H.* (*Paludestrina*) *tournoueri*, Herm., WENZ Nachrbl. D. Malak. Ges. **1919** p. 72.

*Hydrobiidae*, ANNANDALE **13** p. 134.

†*Hypsipleura* ? *alta, angulicosta, binotata,* **spp. n.**, Trias Argentina, BONARELLI An. Minist. Ag. Sec. Geol. Buenos Aires **15** p. 71.

†*Katosia* with *K. zygopleuroides* and var. *elatior, K. communis, rapidecrescens, concoidea, pseudovetusta, recticosta, carvajalensis, baculoides, clathrata, brachyspira, obliquecosta,* **var. & spp. n.**, Trias, Argentina, BONARELLI An. Minist. Ag. Sec. Geol. Buenos Aires **15** p. 71.

†*Loxonema polycona* **sp. n.** Devon Germany, SPRIESTERSBACH Jahrb. geol. Landesanst. **38** T. 1 p. 510.

†? *Macrochilina rhenana* **sp. n.** Devon Germany, SPRIESTERSBACH Jahrb. geol. Landesanst. **38** T. 1 p. 507.—*M.* KIRCHNER **341** pp. 240–245.

†*Melanatria dimorphica* **sp. n.** Quaternary Peru, WOODS in BOSWORTH Geol. of Peru **1922** p. 83.

†*Melanellidae*, PILSBRY **473** p. 394.

*Melania persculpta* **sp. n.** Burma, EHRMANN SitzBer. natf. Ges. **45–48** p. 18.

*Melaniidae*, ANNANDALE **13** p. 135.

†*Melaniidae*, PILSBRY **473** p. 379.

*Melanoides* with *M. sluiteri* **sp. n.** Sumatra, PRASHAD Rec. Ind. Mus. **22** pp. 489–493.

*Melanopsis*, GERMAIN **237**.

†*Melanopsis pallaryi* **nom. n.** for *M.* (*M.*) *acuminata*, Pallary; *M. albasensis* **nom. n.** for *M.* (*Canthidomus*) *nodosa*, Don.; *M. tinnyensis* **nom. n.** for *M. sinzowi*, Lör, WENZ Nachrbl. D. Malak. Ges. **1919** p. 73.—*M.* (*Lyrcea*) *pachecoi* **sp. n.** Miocene Spain, GOMÉZ Mem. Com. Inv. Pal. Madrid **30** p. 108.

†*Micromelania graeca* **nom. n.** for *Melania elegans*, Fuchs, WENZ Nachrbl. D. Malak. Ges. **1919** p. 73.

†*Modulidae*, COSSMANN & PEYROT **150** p. 319.—*M.*, PILSBRY **473.**

†*Morgania magna* Tertiary; *M. costata* Quaternary Peru, **spp. n.**, WOODS in BOSWORTH Geol. of Peru **1922** pp. 82 83.

*Paludestrina confusa*, OLDHAM **447.**—*P. jenkinsi*, BACCHUS **32.**—*P. j.*, CHRISTY **118.**—*P. ventrosa*, ROBSON **522.**

*Paludomus pustulosa* **sp. n.** Manipur, ANNANDALE Rec. Ind. Mus. **22** p. 563.

†*Pirenella confusa* **sp. n.** Eocene France, COSSMANN Bul. soc. sci. nat. Nantes **5** p. 99.

*Pleuroceridae*, BAKER **36** p. 59.

†*Potamides occidentalis* **sp. n.** Quaternary Peru, WOODS in BOSWORTH Geol. of Peru **1922** p. 90.—*P. ormzi* **var. n.** *infraliratus* Tertiary Peru, SPIEKER Johns Hopkins Univ. Stud. Geol. **3** p. 58.—*P.* with *P. praecinctus* **mut. n.** *ultracinctus* **sp. n.** Eocene France, COSSMANN Bul. soc. sci. nat. Nantes **5** pp. 95–97.—*P.* (*Tympanotonus*) *merangianus*, *P.* (*Terebralia*) *augsananus*, **spp. n.**, Tertiary, MARTIN Samml. geol. Reichsmus **1** pp. 472–473.

†*Procerithium* (*Rhabdocolpus*) *gentili* **sp. n.** Lias Morocco, COSSMANN & ABRARD Bul. soc. géol. Paris **21** p. 158.

†*Protofusus saltensis*, *andinus*, *convexigyrus*, **gen. & spp. n.**, Trias, Argentina, BONARELLI An. Minist. Ag. Sec. Geol. Buenos Aires **15** p. 73.

†*Pseudamnicola ultramontana* **nom. n.** for *Hydrobia* (*Paludina*) *immutata*, Cap., WENZ Nachrbl. D. Malak. Ges. **1919** p. 74.

†*Pyrgula capellinii* **nom. n.** for *Hydrobia incerta*, Cap., WENZ Nachrbl. D. Malak. Ges. **1919** p. 75.

†*Rhabdoconcha* (?) *dubia*, *subcontracta*, **spp. n.**, Trias Argentina, BONARELLI An. Minist. Ag. Sec. Geol. Buenos Aires **15** p. 71.

†*Siliquaria modesta* Dall **var. n.** *limonensis* Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 147.

†*Spirostylus elegans* **sp. n.** Trias Argentina, BONARELLI An. Minist. Ag. Sec. Geol. Buenos Aires **15** p. 71.

†*Stephanocosmia disputabilis*, *tyrsecina*, *frecuens*, *micracantha*, **spp. n.**, Trias Argentina, BONARELLI An. Minist. Ag. Sec. Geol. Buenos Aires **15** p. 71.

†*Telescopium peruvianum* **sp. n.** Tertiary, WOODS in BOSWORTH Geol. of Peru **1922** p. 91.

†*Teliostoma abrardi* **sp. n.** Eocene France, COSSMANN Bul. soc. sci. nat. Nantes **5** p. 98.

†*Tenagodes* with *T. anguinus* **mut. n.** *miocaenicus* Tertiary, COSSMANN & PEYROT Act. soc. linn. Bordeaux **73** pp. 88–91.

*Tiara tuberculata*, CAWSTON **104.**

*Trifora* [*vide etiam Triforis and Triphora*] *basalis* **sp. n.** Masatierra, ODHNER Nat. hist. of Juan Fernandez **3** 2 p. 223 figs.

†*Triforidae* with *Triforis raulini*, *T.* (*Epetrium*) *peyreirensis*, **spp. n.**, *T. adversa* **mut. n.** *miocaenica*, *T. papaveracea* **var. n.** *inflexicosta* Tertiary, COSSMANN & PEYROT Act. soc. linn. Bordeaux **73** pp. 303–313.

†*Triforis* [*vide etiam Trifora and Triphora*] *multigyrata* **sp. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 74.

†*Triphora* [*vide etiam Trifora and Triforis*] (*Ogivia*) *gymna* **sp. n.** Eocene France, COSSMANN Bul. soc. sci. nat. Nantes **5** p. 102.

†*Triphoridae* [*vide etiam Triforidae*] PILSBRY **473** p. 369.

†*Tympanotonus lagunitensis* **sp. n.** Tertiary, WOODS in BOSWORTH Geol. of Peru **1922** p. 90.

†*Tyrsoecus andinus*, *monoliformis*, *perarmatus*, **spp. n.**, Trias, Argentina, BONARELLI An. Minist. Ag. Sec. Geol. Buenos Aires **15** p. 71.

†*Vermetidae*, PILSBRY **473.** p. 376.

†*Vermetus* with *V. benoisti, leognanensis, linderi*, **spp. n.**, *V.* (*Petaloconchus*) *intortus* **var. n.** *colligata*; *V.* (*Bivonia*) *sacyi*, *V.* (*Elliptovermetus*) *breigneti*, **spp. n.**, *V.* (*Burtinella*) *c. f. semisurrectus* Biv. mut. *antecedens*, *V.* (*Lemintina*) *arenarius* L. mut. *pseudodentifer* and *arcusferens* **mutt. n.**; *V.* (*Spiroglyphus* ?) *desmoulinsi* **sp. n.** Tertiary, COSSMANN & PEYROT Act. soc. linn. Bordeaux **73** pp. 68–85.—*V.* (*Lemintina*) *echinulatus* **sp. n.** Eocene France, COSSMANN Bull. soc. sci. nat. Nantes **5** p. 103.

†*Vermicularia*, COSSMANN & PEYROT **150** p. 86

†*Zygopleura cossmanni* **sp. n.** Lias Indo-China, MANSUY Mém. serv. géol. Indochine **6** p. 19.—*Z.* with *Z. turgida, paucinodosa, spinicosta, multicosta, pustulosa, maimarensis, argentina*, **spp. n.**, Trias Argentina, BONARELLI An. Minist. Ag. Sec. Geol. Buenos Aires **15** p. 70.

CAECIDÆ, TURRITELLIDÆ, STRUTHIOLARIIDÆ, CHENOPIDÆ, STROMBIDÆ, XENOPHORIDÆ.

†*Alaria acute-carinata* Jura; *A. acuta* Cretaceous, **spp. n.**, Argentina BEHRENDSEN Act. Acad. Ci. Cordoba **7** p. 192.

†*Arrhoges haastianus* **sp. n.** Cretaceous N. Zealand, WILCKENS Pal. Bul. Geol. Surv. N.Z. **9** p. 9.—*A.* (*Pseudodiartema*) *palmata* **gen.** & **sp. n.** Lower Cretaceous France, GILLET Bul. soc. géol. Paris **21** p. 28.

†*Caecidae*, PILSBRY **473** p. 378.

†*Caecum*, COSSMANN & PEYROT **150** p. 65.

†*Chenopus*, BEHRENDSEN **49** p. 168.

†*Dicroloma* with *D.* (*Anchiura*) *longiscata*, Buv. **mut. n.** *wassyensis* Barremian France, GILLET Bul. soc. géol. Paris **21** p. 30.—*D.* (*Pietteia*) *huguenini* **sp. n.** Lias France, RICHE & ROMAN Trav. Lab. géol. Lyon **1** p. 96.

†*Harpagodes magnificus, heimi*, **spp. n.**, Mesozoic, ROLLIER Abh. Schw. Pal. Ges. **44** pp. 90–92.

*Mathilda* [*vide etiam Mathildia*] *brevicula* **sp. n.** Loyalty Isds., BAVAY J. conchyliol. Paris **67** p. 65.

†*Mathildia* [*vide etiam Mathilda*] *njalindungensis* **sp. n.** Tertiary, MARTIN Samml. geol. Reichsmus. **1** p. 474.—*M. peyroti* **sp. n.** Tertiary, COSSMANN & PEYROT Act. soc. linn. Bordeaux **73** p. 177.

†*Mesalia*, COSSMANN & PEYROT **150** p. 64.

†*Orthaulax inornatus altilis* **subsp. n.** Tertiary Santo Domingo, PILSBRY Proc. Acad. Nat. Sci. Philad. **73** p. 369.

†*Perissoptera waiparaensis, novoseelandica*, **spp. n.**, Cretaceous, N. Zealand, WILCKENS Pal. Bul. Geol. Surv. N.Z. **9** pp. 11–13.

†*Protoma* with *P. quadriplicata* **mut. n.** *inaequiplicata*; *P. vasconiensis, densecingulata*, **spp. n.**, Tertiary, COSSMANN & PEYROT Act. soc. linn. Bordeaux **73** pp. 52–64.

†*Pseudophorus*, KIRCHNER **341** p. 235.

†*Rimella* (*Dientomochilus*) *promensis* **sp. n.** Tertiary Burma, VREDENBURG Rec. geol. Surv. Ind. **51** p. 291.

†*Rostellaria bidigitata, unidigitata*, **spp. n.**, Eocene, Nigeria, NEWTON Geol. Surv. Nigeria **3** pp. 12–14.

†*Semiterebellum suturocostatum, elongatum*, **spp. n.**, Eocene, Nigeria, NEWTON Geol. Surv. Nigeria **3** pp. 15–17.

†*Strombidae*, PILSBRY **473** p. 366.

†*Struthiolariopsis similis* **sp. n.** Cretaceous N. Zealand, WILCKENS Pal. Bul. Geol. Surv. N. Z. **9** p. 17.

*Turritella*, PEILE **465**.

†*Turritella altilira* varr. *chiriquiensis, costaricensis*, *T. exoleta* var. *limonensis*, *T. oreodoxa* **varr.** & **sp. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal **39** pp. 150–152.—*T. alturana* **nom. n.** for *T. plana*, Nils.; *T. filicincta* var. *varicosta, inca* var. *trita* **varr. n.**; *T. nelsoni* **nom. n.** for *T. suturalis*, Nels.; *T. nelsoni* var. *trullissatia, infracarinata* var. *zorritensis* **varr. n.**; *T. prenuncia* **sp. n.**; *T. robusta* **var. n.** *abrupta*; *T. charama* **sp. n.**, SPIEKER Tertiary Peru Johns Hopkins Univ. Stud. Geol. **3** pp. 62–86.—*T. bantamensis* **var. n.** *producta* **sp. n.** Tertiary, MARTIN Samml. geol. Reichsmus. **1** p. 474.—*T. graysonensis, worthensis*, **spp. n.**, Cretaceous U.S.A., ADKINS Univ. Texas Bul. **1856** pp. 140–142.—*T. halensis* **var.** [? **n.**] *alpha* Oligocene Porto Rico MITCHELL Sci. Surv. Porto Rico **1** p. 285.—*T. mauryana* **sp. n.** Eocene Nigeria, NEWTON Geol. Surv. Nigeria **3** p. 48.—*T. negritosensis, lissoni, dickersoni, bosworthi, douvillei,*

*anceps, annectens*, **spp. n.**, Quaternary Peru, WOODS in BOSWORTH Geol. of Peru **1922** pp. 78–81.—*T. noetlingi* **sp. n.** Tertiary Burma, VREDENBURG Rec. geol. Surv. Ind. **51** p. 292.—*T. pinfoldi* **sp. n.** Tertiary India, VREDENBURG Rec. Geol. Surv. Ind. **51** p. 313.—*T. solitaria* **sp. n.** Cretaceous N. Zealand, WILCKENS Pal. Bul. Geol. Surv. N. Z. **9** p. 35.—*T.* with *T. terebralis* **varr. n.** *grata, aquensis*; *T. t.* **mut. n.** *aturensis*; *T. pseudogradata, cestasensis, stephanensis* and var. *venusta*, **spp.** & **var. n.**; *T.* (*Zaria*) *aquitaniensis* **nom. emend.**; *T.* (*Z.*) *secans, raulini, falaciosa, T.* (*Archimediella*) *bearnensis, vasconiensis* and var. *terebriformis, pythagoraica* Hil. var. *degrangei*; *T.* (*Haustator*) *syrtica, peyrerensis, tcuzini, benoisti*, **spp.** & **varr. n.**; *T.* (*Peyrotia*) *strangulata* **mut. n.** *grossa*, Tertiary, France, COSSMANN & PEYROT Act. soc. linn. Bordeaux **73** pp. 5–52.—*T.* BEHRENDSEN **49** p. 198.

†*Turritellidae*, PILSBRY **473** p. 377.

†*Tugurium nigeriense* **sp. n.** Eocene Nigeria, NEWTON Geol. Surv. Nigeria **3** p. 51.

†*Xenophoridae*, PILSBRY **473** p. 385.

CAPULIDÆ, HIPPONYCIDÆ, CALYPTRAEIDÆ, NARICIDÆ, NATICIDÆ, LAMELLARIIDÆ.

†*Amauropsis burnsii meridionalis* **subsp. n.** Tertiary Santo Domingo, PILSBRY Proc. Acad. Nat. Sci. Philad. **73** p. 387.—*A.* (?) *andina* **sp. n.** Trias Argentina, BONARELLI An. Minist. Ag. Sec. Geol. Buenos Aires **15** p. 73.

†*Ampullina, colossea, A.* (*Euspira*) *montmollini*, **spp. n.**, Mesozoic, ROLLIER Abh. Schw. Pal. Ges. **44** pp. 75–77.

†*Calyptraea solitaria* **sp. n.** Cretaceous N. Zealand, WILCKENS Pal. Bul. Geol. Surv. N.Z. **9** p. 6.

†*Calyptraeidae*, PILSBRY **473** p. 385.

†*Capulidae*, PILSBRY **473** p. 384.

*Crepidula fornicata*, BELCHER **50.**—*C. fornicata*, ORTON **453** & **454.**

†*Crepidula falconeri* **sp. n.** Eocene Nigeria, NEWTON Geol. Surv. Nigeria **3** p. 58.—*C. hochstetteriana* **sp. n.** Cretaceous N. Zealand, WILCKENS Pal. Bul. Geol. Surv. N. Z. **9** p. 5.

†*Crepitacella limonensis* **sp. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 143.

†*Diaphorostoma*, REED **506** p. 307.

†*Hipponicidae*, PILSBRY **473** p. 384.

†*Hipponyx digitata* **sp. n.** Eocene France, COSSMANN Bul. soc. sci. nat. Nantes **5** p. 121.

†*Lunatia humilis, bulbosa*, **spp. n.**, Devon, Germany, SPRIESTERSBACH Jahrb. geol. Landesanst. **38** T. 1 pp. 305–306.

†*Megatylotus bourcarti* **sp. n.** Oligocene Albania, COSSMANN & BOURCART Bul. soc. géol. Paris **21** p. 168.

†*Natica gastelumendii* **sp. n.** Cretaceous BERRY & STINGEWALD Johns Hopkins Univ. Stud. Geol. **2** p. 86.—*N. selwyniana, ingrata*, **spp. n.**, Cretaceous N. Zealand, WILCKENS Pal. Bul. Geol. Surv. N. Z. **9** p. 6.—*N. youngi* Maury **var. n.** *cocleana* Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 155.—*N.* with *N. bodenbenderi* **sp. n.** Jura Argentina, BEHRENDSEN Act. Acad. Ci. Cordoba **7** pp. 196 208.

†*Naticidae*, PILSBRY **473** p. 386.

†*Platyceras dorsicarina, paulospirale, distortum, loranum, eegense*, **spp. n.**, Devon, Germany, FUCHS Abh. geol. Landesanst. **79** pp. 64–69.—*P.*, REED **506** p. 308.—*P.*, YAKOWLEV **660.**

†*Platyostoma*, KIRCHNER **341** p. 240.

*Polinices* [*vide etiam Polynices*], COPELAND **144.**

†*Polynices* [*vide etiam Polinices*] *porcana* **sp. n.** Tertiary Peru, SPIEKER Johns Hopkins Univ. Stud. Geol. **3** p. 88.

†*Sinum africanum* **sp. n.** Eocene Nigeria, NEWTON Geol. Surv. Nigeria **3** p. 57.—*S. carolanum* **sp. n.** Tertiary Peru, SPIEKER Johns Hopkins Univ. Stud. Geol. **3** p. 89.

†*Tylostoma*, BEHRENDSEN **49** p. 198.

†*Zinolia speciosa* **gen.** & **sp. n.** Pliocene Italy, ISSEL Atti soc. lig. Genova **1** p. 122.

TRICHOTROPIDÆ, JANTHINIDÆ, CYPRAEIDÆ, CYMATIIDÆ, CASSIDIDÆ, TONNIDÆ, CANCELLARIIDÆ.

†*Amphiperas nigeriensis* **sp. n.** Eocene Nigeria, NEWTON Geol. Surv. Nigeria **3** p. 18.

†*Bursa crassa proavus* **subsp. n.** Tertiary Santo Domingo, PILSBRY Proc. Acad. Nat. Sci. Philad. **73** p. 360.

†*Cassidaria echinophora* **var. n.** *promensis* Tertiary Burma, VREDENBURG Rec. Geol. Surv. Ind. **51** p. 290.

†*Cassidea birmanica* **sp. n.** Tertiary Burma, VREDENBURG Rec. geol. Surv. Ind. **51** p. 290.

†*Cassididae*, PILSBRY **473** p. 360.

†*Cymatiidae*, PILSBRY **473** p. 356.

*Cypraea* with *C. dillwyni* **nom. n.** for *C. margarita*, Gray; *C. liliputana* **nom. n.** for *T*[*rivia*] *scabriuscula*, Koenen; *C. massauensis* **nom. n.** for *C. gemmula*, Weink, SCHILDER Proc. Malac. Soc. **15** pp. 98–122.—*C. pacifica*, BUTTON **97.**

†*Cypraea angustirima* **sp. n.** Tertiary Peru, SPIEKER Johns Hopkins Univ. Stud. Geol. **3** p. 55.—*C. parisimina, almirantensis*, **spp. n.**, Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** pp. 139–140.—*C. siphonata* **sp. n.** Tertiary, CHAPMAN Proc. R. Soc. Vict. **35** p. 12.—*C.* (*Bernayia*) *sinquensis, C.* (*Cypraeotrivia*) *oppenheimi*, **spp. n.**, Tertiary Burma, VREDENBURG Rec. geol. Surv. Ind. **51** p. 291.—*C.*, SCHILDER **537.**

†*Cypraeidae* with *Cypraea raymondrobertsi, campbelliana*, **spp. n.**, Tertiary Santo Domingo, PILSBRY Proc. Acad. Nat. Sci. Philad. **73** pp. 364–366.

†*Doliidae*, PILSBRY **473** p. 363.

†*Erato obesula* **sp. n.** Tertiary, CHAPMAN Proc. R. Soc. Vict. **35** p. 12.

†*Eutritonium* (*Colubraria*) *augsananum, E.* (*Lampusia*) *njalindungense*, **spp. n.**, Tertiary, MARTIN Samml. geol. Reichsmus. **1** p. 467.

†*Hilda turriculata* **sp. n.** Eocene Nigeria, NEWTON Geol. Surv. Nigeria **3** p. 29.

†*Ranella antiqua, R.* (*Pseudobursa*) *promensis*, **spp. n.**, Tertiary, Burma, VREDENBURG Rec. geol. Surv. Ind. **51** p. 289.

†*Sconsia laevigata*, Sow. var. *gabbi*, S. *bocasensis, cocleana*, **spp. n.**, Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** pp. 136–118.

*Triton* with *T.* (*Cumia*) **var. n.** *biplex* Sicily, COEN Riv. ital. paleont. **28** pp. 21–23.

*Trivia* with *T. antillarum* **nom. n.** for *T. subrostrata*, Gray; *T. nix* **nom. n.** for *T. nivea*, Sow; *T. occidentalis* **nom. n.** for *T. pulla*, Gask, SCHILDER Proc. Malac. Soc. **15** pp. 98–122.

†*Trivia noetlingi* **sp. n.** Tertiary Burma, VREDENBURG Rec. geol. Surv. Ind. **51** p. 291.—*T.*, SCHILDER **537.**

†*Uxia bruxelliensis* **sp. n.** Eocene Belgium, LÉRICHE Bul. Soc. Geol. Belge **31** p. 184.

SOLARIIDAE, SCALARIIDÆ.

†*Acrilla* (*Littoriniscala*) *nerviensis* **sp. n.** Eocene Belgium, LÉRICHE Bul. soc. géol. Belge **31** p. 193.

†*Architectonicidae*, PILSBRY **473** p. 379.

†*Colpomphalus abrardi* **sp. n.** Lias Morocco, COSSMANN & ABRARD Bul. soc. géol. Paris **21** p. 156.

†*Discohelix crussoliensis, D.* (*Colpomphalus*) *bathmis*, **spp. n.**, Lias, France, RICHE & ROMAN Trav. Lab. géol. Lyon **1** pp. 102–104.—*D. dissymetrica* **sp. n.** Lower Cretaceous France, GILLET Bul. soc. géol. Paris **21** p. 27.

†*Epitoniidae* with *Epitonium santodominganum, amosbrowni*, **spp. n.**, Tertiary, Santo Domingo, PILSBRY Proc. Acad. Nat. Sci. Philad. **73** pp. 387–389.

†*Euomphalus calliferus* **sp. n.** Devon Germany, SPRIESTERSBACH Jahrb. geol. Landesanst. **38** T. 1 p. 499.—*E.* with *E. altus, basinodosus*, **spp. n.**, Devon, Germany, KIRCHNER Verh. nat. hist. Ver. Bonn **71** pp. 314–227.

†*Platychisma allandalensis* **sp. n.** Permo-carboniferous New South Wales, MITCHELL Proc. Linn. Soc. N. S. Wales **47** p. 278.

†*Scala* (*Hyaloscala*) *minuta* **var. n.** *gigantea* Tertiary GRIPP Zs. D. geol. Ges. Abh. Berlin **74** p. 188.

*Scalaria* (*Clathrus*) *juanina* **sp. n.** Masatierra, ODHNER Nat. hist. of Juan Fernandez **3** 2 p. 224 fig.

†*Scalaria azumana, kazusensis, yamakawai, conjuncta, subfrondicula, picturata* **spp. n.**, Pleistocene, Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** pp. 86–89.—*S.* (*Cirsotrema ?*) *pacifica* **sp. n.** Cretaceous N. Zealand, WILCKENS Pal. Bul. Geol. Surv. N. Z. **9** p. 8.—*S.* (*Hirtoscala*) *elegans* Ris. **var. n.** *duplex* Pliocene San Marino, NELLI Scritt. var. Geog. Geol. **1922** p. 102.

†*Scalidae* with *Nobiliscala remota*; *Clathrus neuvillei, neptunei*; *Fuscoscala thevenini, castor, pollux, inconsiderata, imputata, abietorum, recessa, dubaleni*,

*incredulis, imperita*; *Eburniscala leognanensis*; *Avalitiscala stupefacta*; *Foveoscala recidiva*; *Hirtoscala sacyi*, **spp. n.**, *Lepidoscala* **subgen. n.** with *L. biali* and varr. *intangibilis* and *recollecta* **sp. & varr. n.**; *Linctoscala burdigalensis*; *Hyaloscala micans*; *Mirilliscala superlativa, illuminata*; *Spiniscala merignacensis* var. *polycolpata*; *S. touzini, perfragilis, trivialis, orthezensis, constituta, banoni* var. *unctai Gyroscala neovasconiensis, despecta, suavis*; *Circuloscala indubitata*; *Acrilla vignali, silentiosa*; *Dentiscala rozieri*, **spp. & varr. n.**, Tertiary, COSSMANN & PEYROT Act. soc. linn. Bordeaux **73** pp. 91–177.

†*Solarium augsananum* **sp. n.** Tertiary, MARTIN Samml. geol. Reichsmus. **1** p. 475.—*S. nelsoni* **sp. n.** Quaternary Peru, WOODS in BOSWORTH Geol. of Peru **1922** p. 76.

†*Stellaxis bicingulata* **sp. n.** Eocene Nigeria, NEWTON Geol. Surv. Nigeria **3** p. 52.

†*Straparollus wachtbergi, lithoides, minimus*, **spp. n.**, Devon, Germany, KIRCHNER Verh. nat. hist. Ver. Bonn **71** pp. 212–213.

†*Subulicala* [? *Subuliscala*] *wolfliana* **sp. n.** Tertiary, GRIPP Zs. D. geol. ges. Abh. Berlin **74** p. 184.

†*Torinia elegantula* **sp. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 78.

PYRAMIDELLIDÆ, STROMBIFORMIDÆ.

†*Anisocycla allixi* **sp. n.** Eocene France, COSSMANN Bul. soc. sci. nat. Nantes **5** p. 126.

†*Euchrysalis*, KIRCHNER **341** p. 255.

†*Eulima* (*Leiostraca*) *unicincta, tokunagei, glabroides, krishna*, **spp. n.**, Pleistocene, Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** pp. 89–91.

†*Holopella*, KIRCHNER **341** p. 254.

†*Loxonema* with *L. incurvilineatum, paucicostatum, arduum, retrostriatum, carinatum* and *c.* var. *sulcata, spiraglobosum, paludinoides, ginzenbergensis*, **spp. & var. n.**, Devon, Germany, KIRCHNER Verh. nat. hist. Ver. Bonn **71** pp. 246–254.

*Menestho*, BARTSCH **46.**

†*Odontostomia* (*Nisostoma*) *moguntiensis* **sp. n.** Stampian, COSSMANN Essais pal. comp. Paris **1921** p. 325.

†*Odostomia* (*Odostomida*) *mogindo* **sp. n.** Tertiary Santo Domingo, PILSBRY Proc. Acad. Nat. Sci. Philad. **73** p. 393. —*O.* (*Odostomia*) *gordonis, shimosensis, kizadiensis, venusta, toneana, suboxia, O.* (*Odetta*) *neofelix, O.* (*Egilina*) *mariellodes*, **spp. n.**, Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** pp. 95–100.

*Pyramidella insularum* **nom. n.** for *P. canaliculata* Sow. PILSBRY Proc. Acad. Nat. Sci. Philad. **73** p. 307.

†*Pyramidella ameghinoi, depontaillieri*, **spp. n.**, Astian, COSSMANN Essais pal. comp. Paris **1921** pp. 323 324.—*P.* (*Agatha*) *virgo* (Ads.) var. *brevis, P.* (*Iphiana*) *mira, siva* **var. & spp. n.**, Pleistocene, Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** pp. 92–94.

*Pyramidellidae*, CHRISTENSEN **117** pp. 97–98.

†*Pyramidellidae*, PILSBRY **473** p. 389.

†*Syrnola* (*Pachysyrnola*) *faurai* **sp. n.** Pliocene Catalonia, COSSMANN Essais pal. comp. Paris **1921** p. 325.—*S.* (*Puposyrnola*) *pliocaenica* **sp. n.** Tertiary, COSSMANN Essais pal. comp. Paris **1921** p. 325.

†*Turbonilla* (*Ptycheulimella*) *misella, T.* (*Chemnitzia*) *imbana, kidoensis, teganumana, sematana, T.* (*Mormula* ?) *scrobiculata, T.* (*Pyrgolampros*) *planicostata, T.* (*Strioturbonilla*) *sagamiana, pacifica, T.* (*Careliopsis* ?) *obscura, angulifera*, **spp. n.**, Pleistocene, Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** pp. 100–106.

ATLANTIDAE.

†*Atlantidae*, PILSBRY **473** p. 314.

STENOGLOSSA.

TURBINELLIDÆ, FASCIOLARIIDÆ, MITRIDÆ.

*Aptyxis*, COEN **125.**

†*Bulbifusus nigeriensis* **sp. n.** Eocene Nigeria, NEWTON Geol. Surv. Nigeria **3** p. 35.

†*Clavilithes costarius* **var. n.** *gronnieri* Eocene Belgium, LÉRICHE Bul. soc. géol. Belge **31** p. 189.—*C. harrisi, peruvianus, pacificus, incertus*, **spp. n.**, Quaternary, WOODS in BOSWORTH Geol. of Peru **1922** pp. 97–100.

†*Cryptorhytis vulnerata* **sp. n.** Cretaceous N. Zealand, WILCKENS Pal. Bul. Geol. Surv. N. Z. **9** p. 21.

*Cylindra*, PEILE **464**.

†*Fasciolaria macdonaldi* **sp. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 106.

†*Fasciolariidae*, PILSBRY **473** p. 345.

†*Fusinus youngi* **sp. n.** Tertiary, CHAPMAN Proc. R. Soc. Vict. **35** p. 14.

*Fusus*, BARTSCH **46**.

†*Fusus augsanana* **sp. n.** Tertiary, MARTIN Samml. geol. Reichsmus **1** p. 454.—*F. eximius* var. *stolleyana* **var. n.** Tertiary, GRIPP Zs. D. geol. Ges. Abh. Berlin **74** p. 188.—*F. miocosmius, honensis*, **spp. n.**, Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** pp. 103–104.

†*Lathyrus* [*vide etiam Latirus*] *indicus* **sp. n.** Tertiary Burma, VREDENBURG Rec. geol. Surv. Ind. **51** p. 287.—*L njalindungensis, L.* (*Ascolathyrus*) *augsananus, L.* (*Peristernia*) *beberianus, merangianus*, **spp. n.**, Tertiary, MARTIN Samml. geol. Reichsmus **1** pp. 455–457. —*L.* (*Lathyrulus*) *bourdoti* **sp. n.** Eocene France, COSSMANN Bul. soc. sci. nat. Nantes **5** p. 74.

†*Latirus* [*vide etiam Lathyrus*] *brevicaudatus santodomingensis* **subsp. n.** Tertiary Santo Domingo, PILSBRY Proc. Acad. Nat. Sci. Philad. **73** p. 345.—*L. irazu, taurus*, **spp. n.**, Miocene, Costa Rica, OLSSON Bul. Amer. Pal. **39** pp. 107–108.

†*Lirofusus inopinatus* **sp. n.** Eocene France, COSSMANN Bul. soc. sci. nat. Nantes **5** p. 75.

†*Melongena* (*Pugilina*) *praeponderosa* **sp. n.** Tertiary Burma, VREDENBURG Rec. geol. Surv. Ind. **51** p. 287.

*Mitra*, PEILE **464**.

†*Mitra hondana, pirula*, **spp. n.**, Pleistocene, Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** pp. 50–51.—*M. swainsoni* var. *limonensis, M. poas, M. almagrensis*, Toula var. *coralliophila* **varr. & sp. n.** Miocene, OLSSON Costa Rica Bul. Amer. Pal. **39** pp. 100–103.—*M.* (*Cancilla*) *augsanana* **sp. n.** Tertiary, MARTIN Samml. geol. Reichsmus **1** p. 453.

†*Mitridae*, PILSBRY **473** p. 339.

†*Neptunea*, ØYEN **456**.

†*Parvisipho* (*Columbellisipho*) *conjunctispira* **sp. n.** Eocene France, COSSMANN Bul. soc. sci. nat. Nantes **5** p. 79.

†*Pirula* [*vide etiam Pyrula*] *condita* **var. n.** *sinjuensis* and *P. promensis* **sp. n.** Tertiary Burma, VREDENBURG Rec. geol. Surv. Ind. **51** pp. 290–291.

†*Pyrula* [*vide etiam Pirula*] *peruviana* **sp. n.** Tertiary Peru, SPIEKER Johns Hopkins Univ. Stud. Geol **3** p. 54.

*Pusia*, PEILE **464**.

†*Rhopalithes africanus* **sp. n.** Eocene Nigeria, NEWTON Geol. Surv. Nigeria **3** p. 32.

†*Sipho* (*Parasipho*) *nipponicus* **sp. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 55.

†*Siphonalia dumasi* **sp. n.** and *S. chaussyensis* **race n.** *paucicostulata* Eocene France, COSSMANN Bul. soc. sci. nat. Nantes **5** p. 76. — *S.* (*Kelletia*) *iravadica* **sp. n.** Tertiary Burma, VREDENBURG Rec. Geol. Surv. Ind. **51** p. 287.—*S.* (*Kelletia*) *subspadicea* **sp. n.** Tertiary India, VREDENBURG Rec. Geol. Surv. Ind. **51** p. 310.—*S.* (*Pseudoneptunea*) *njalindungensis* **sp. n.** Tertiary, MARTIN Samml. geol. Reichsmus **1** p. 458.

†*Solutofusus curlewisensis* **sp. n.** Tertiary, CHAPMAN Proc. R. Soc. Vict. **35** p. 14.

†*Streptochetus pallaryi* **sp. n.** Eocene France, COSSMANN Bul. soc. sci. nat. Nantes **5** p. 73.

†*Streptolathyrus* ? *subangulatus* **sp. n.** Eocene France, COSSMANN Bull. soc. sci. nat. Nantes **5** p. 72.

†*Strepsidura pacifica* **sp. n.** Quaternary WOODS in BOSWORTH Geol. of Peru **1922** p. 96.—*S. spirata* **sp. n.** Eocene Nigeria, NEWTON Geol. Surv. Nigeria **3** p. 33.

†*Sycum americanum* **sp. n.** Peru, WOODS in BOSWORTH Geol. of Peru **1922** p. 101.

*Trophon*, BARTSCH **46**.

†*Tudicula alta* **sp. n.** Cretaceous N. Zealand, WILCKENS Pal. Bul. Geol. Surv. N. Z. **9** p. 20.

*Vexillum*, PEILE **464**.

†*Volutospina peruviana, crassiuscula, meridionalis*, **spp. n.**, Quaternary, WOODS in BOSWORTH Geol. of Peru **1922** pp. 101–105.

†*Xancidae*, PILSBRY **473** p. 342.

†*Xancus scopulus* **sp.n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 111.

BUCCINIDÆ, NASSARIIDÆ, MURICIDÆ, PURPURIDÆ, HALIIDÆ, CANCELLARIIDÆ, PYRENIDÆ, THAIDIDÆ.

†*Alectrion ranuncula, merenda,* **spp. n.**, Miocene, Costa Rica, OLSSON Bul. Amer. Pal. **39** pp. 123–124.

*Babelomurex* **sec. n.** type *Pseudomurex babelis*, Req., COEN Atti Soc. ital. sc. nat. **61** p. 68.

†*Buccinidae*, PILSBRY **473** p. 348.

†*Buccinorbis kitsoni* **sp. n.** Eocene Nigeria, NEWTON Geol. Surv. Nigeria **3** p. 37.

*Buccinum undatum*, JOHNSTONE p. 43 **325.**

†*Buccinum*, ØYEN **456.**

†*Cancellaria multiplicis* **sp. n.** Eocene Nigeria, NEWTON Geol. Surv. Nigeria **3** p. 42.—*C. torquayensis* **sp. n.** Tertiary, CHAPMAN Proc. R. Soc. Vict. **35** p. 16.—*C.* with *C. cossmanni, mauryae, toroensis, plummeri,* **spp. n.**, OLSSON Bul. Amer. Pal. **39** pp. 80–85.

†*Cancellariidae* with *Cancellaria ellipsis* **sp. n.** Tertiary Santo Domingo, PILSBRY Proc. Acad. Nat. Sci. Philad. **73** pp. 332–334.

*Columbella* (*Mitrella*) *lignaria* **sp. n.** Masatierra, ODHNER Nat. hist. of Juan Fernandez **3** 2 p. 224 fig.

†*Columbella submercatoria* **sp. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 125.—*C.* (*Alia*) *augsanana, preangerensis, merangiana, njalindungensis,* **spp. n.**, Tertiary, MARTIN Samml. geol. Reichsmus. **1** pp. 462–464.—*C.* (*Atilia*) *smithi turriculata, praecursor, masakadoi,* **spp. n.**, Pleistocene, Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** pp. 60–62.

†*Columbellidae*, PILSBRY **473** p. 350.

†*Cominella douvillei* **sp. n.** Eocene Nigeria, NEWTON Geol. Surv. Nigeria **3** p. 39.

†*Coralliophaga peyroti* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 68.

†*Coralliophila augsanana* **sp. n.** Tertiary, MARTIN Samml. geol. Reichsmus. **1** p. 466.

†*Cyllene augsanana* **sp. n.** Tertiary, MARTIN Samml. geol. Reichsmus. **1** p. 459.

†*Cymia henekeni tectiformis* **subsp. n.** Tertiary Santo Domingo, PILSBRY Proc. Acad. Nat. Sci. Philad. **73** p. 355.

†*Dorsanum de gasperii* **sp. n.** Pliocene San Marino, NELLI Scritt. var. geog. geol. **1922** p. 107.

*Fusomurex* **sec. n.** type *Pseudomurex alucoides*, De. Blainv., COEN Atti Soc. ital. sc.nat. **61** p. 69.

†*Halia americana* **sp. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 79.

†*Hindsia birmanica* **sp. n.** Tertiary Burma, VREDENBURG Rec. geol. Surv. Ind. **51** p. 289.

*Hirtomurex* **sec. n.** type *Pseudomurex lamellosus*, Phil., COEN Atti Soc. ital. sc. nat. **61** p. 69.

†*Janiopsis nigeriensis* **sp. n.** Eocene Nigeria, NEWTON Geol. Surv. Nigeria **3** p. 41.

*Latiromurex* **sec. n.** type *Pseudomurex meyendorffi*, Calc., COEN Atti Soc. ital. sc. nat. **61** p. 70.

*Lepadomurex* **subgen. n.** (*L. brevis*, de Blainv), COEN Atti Soc. ital. sc. nat. **61** p. 70.

†*Liomesus africanus* **sp. n.** Eocene Nigeria, NEWTON Geol. Surv. Nigeria **3** p. 38.

†*Metula harrisi* and var. *limonensis* **sp. & var. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 116.—*M.* (*Celatoconus*) *siphooides* **sp. n.** Eocene France, COSSMANN Bul. soc. sci. nat. Nantes **5** p. 79.

†*Murex iravadicus* and var. *yenanensis* **sp. & var. n.** Tertiary Burma, VREDENBURG Rec. Geol. Surv. Ind. **51** p. 288.—*M. laqueoratus* **sp. n.** Tertiary Peru, SPIEKER Johns Hopkins Univ. Stud. Geol. **3** p. 51.—*M.* (*Favartia*) *gouetensis* **sp. n.** Eocene France, COSSMANN Bul. soc. sci. nat. Nantes **5** p. 82.—*M.* (*Muricidea*) *gatliffi* **sp. n.** Tertiary, CHAPMAN Proc. R. Soc. Vict. **35** p. 13.—*M.* (*Muricopsis*) *merangianus* **sp. n.** Tertiary, MARTIN Samml. geol. Reichsmus. **1** p. 465.

†*Muricidae*, PILSBRY **473** p. 352.

†*Nassa lagunitensis* **sp. n.** Tertiary, WOODS in BOSWORTH Geol. of Peru **1922** p. 95.—*N.* (*Hinia*) *reticulala* L. var. *titanensis*, *N.* (*Niotha*) *schönni* Hör. and Auing. var. *manzonii* **varr. n.** Tertiary San Marino, NELLI Scritt. var.

Geog. Geol. **1922** pp. 111–112.—*N.* (*Niotha*) *augsanana, talahabensis,* **spp. n.**, Tertiary, MARTIN Samml. geol. Reichsmus. **1** pp. 461–462.

*Neptunea,* DALL **162.**—*N.*, IREDALE **309.**

†*Northia northiae* Gray **var. n.** *miocenica* Miocene Costa Rica., OLSSON Bul. Amer. Pal. **39** p. 124.

†*Ocinebra spectata* **sp. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 65.

†*Peristernia insula, tortugera,* **spp. n.**, Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 100.

†*Phos moorei,* Gup. var. *costaricensis, elegans,* Gup. var. *limonensis, P. estrellensis, veatchi, beteyensis,* **var. & spp. n.**, Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** pp. 118–122.—*P.* (?) *latirugatus* **sp. n.** Tertiary Peru, SPIEKER Johns Hopkins Univ. Stud. Geol. **3** p. 46.

†*Preangeria* **gen. n.** with *P. augsanana, talahabiensis,* **spp. n.** Java, **spp. n.** Tertiary, MARTIN Samml. Geol. Reichsmus. **1** pp. 450–451.

†*Procancellaria parkiana* **gen. & sp. n.** Cretaceous N. Zealand WILCKENS Pal. Bul. Geol. Surv. N.Z. **9**, p. 21.

†*Pseudoliva parinasensis, mutabilis,* **spp. n.**, Quaternary, WOODS in BOSWORTH Geol. of Peru **1922** pp. 93–94.

†*Ptychosalpinx* (?) *dentalis* **sp. n.**. Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 109.

†*Ricinula* (*Morula*) *augsanana* **sp. n.** Tertiary, MARTIN Samml. Geol. Reichsmus. **1** p. 466.

†*Strombina caribaea micra* **var. n.** Tertiary Santo Domingo, PILSBRY. Proc. Acad. Nat. Sci. Philad. **73** p. 351 —*S. materna, cricamola, costaricensis* and var. *musanica, S. sincola, chiriquiensis,* **spp. n.**, Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** pp. 127–130.

†*Trigonostoma decorata* **sp. n.** Eocene Nigeria, NEWTON Geol. Surv. Nigeria **3** p. 43.

†*Tritonidea excisa* **race n.** *dumasi, T.* (*Endopachycheilus*) *umbilicaris* **sp. n.** Eocene France, COSSMANN Bul. Soc. Sci. Nat. Nantes **5** pp. 80–81.—*T.* (*Cantharus*) *augsanana, njalindungensis,* **spp. n.**, Tertiary, MARTIN Samml. Geol. Reichsmus. **1** p. 460.

†*Typhis linguliferus,* Dall. **var. n.** *costaricensis* Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 132.

TURRIDAE, TEREBRIDÆ, CONIDÆ.

*Acrista* **subgen. n.** [*Turridae*], HEDLEY Rec. Austral. Mus. **13** p. 285.

*Anacithara* **gen. n.** with *A. brevicostata, caelatura, exquisita, hebes, hervieri, leptalea, propinqua, rissoina, robusta, stricta, tumida* **spp. n.**, Queensland, HEDLEY Rec. Austral. Mus. **13** pp. 300–304.

†*Ancistrosyrinx dalli* **sp. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 60.

*Asperdaphne* **nom. n.** *Scabrella* Hedley with *A. amplecta, capricornea* **spp. n.**, Queensland; *A. bela* **nom. n.** for *Bela tasmanica* May Tasmania; *A. compacta* **sp. n.** New S. Wales, HEDLEY Rec. Austral. Mus. **13** pp. 338–344.

*Asthenotoma* with *A. cicatrigula* **sp. n.** Queensland, HEDLEY Rec. Austral. Mus. **13** pp. 218–220.

†*Asthenotoma,* HEDLEY **285.**

*Austrodrillia* with *A. raiwitensis* **nom. n.** for *Drilla angasi,* Suter, HEDLEY Rec. Austral. Mus. **13** pp. 247–249.

*Awateria,* HEDLEY **285.**

*Bathytoma,* HEDLEY **285.**

†*Bathytoma* (*Epalxis*) *clathratula* **sp. n.** Eocene France, COSSMANN Bul. Soc. Sci. Nat. Nantes **5** p. 65.—*B.*, HEDLEY **285.**

†*Bela gibbosa* **sp. n.** Eocene France, COSSMANN Bul. Soc. Sci. Nat. Nantes **5** p. 66.—*B. recticostulata* **sp. n.** Pleistocene Japan YOKOYAMA J. Coll. Sci. Tokyo **44** p. 44.

*Borsonia,* HEDLEY **285.**

†*Borsonia cocoensis* **sp. n.** Miocene. Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 78.—*Borsonia B.* (*Cordieria*) *bureaui* **sp. n.** Eocene France, COSSMANN Bul. Soc. Sci. Nat. Nantes **5** p. 66.—*B.*, HEDLEY **285.**

†*Clava* [*vide etiam Clavus*] *costaricana, alajueta,* **spp. n.**, Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** pp. 144–145.

†*Clavatula* (*Perrona*) *birmanica* **sp. n.** var *singuensis* **var. n.** Tertiary Burma VREDENBURG Rec. Geol. Surv. Ind. **51** p. 282.

*Clavus* [*vide etiam Clava*] with *C. oeneus, candidulus, costatus,* **spp. n.,** Queensland, HEDLEY Rec. Austral. Mus. **13** pp. 254–257.

*Columbarium,* HEDLEY **285.**

†*Columbarium,* HEDLEY, **285.**

†*Conidae,* PILSBRY **473** p. 326.

*Conus maculospira* **nom. n.** for *C. planiliratus* Sow. Pilsbry Proc. Acad. Nat. Sci. Philad. **73** p. 307.

†*Conus bocapanenisis, berryi, cacuminatus, molis* var. *bravoi,* **spp.** & **var. n.,** Tertiary Peru, SPIEKER Johns Hopkins Univ. Stud. Geol. **3** pp. 38–41.—*C. pseudomarginatus* **nom. n.** for *C. marginatus* Cossm.—*C. haytensis politispira, proteus humerosus,* **subspp. n.,** Tertiary Santo Domingo, PILSBRY Proc. Acad. Nat. Sci., Philad. **73** pp. 307, 327, 332.—*C.* with *C. veatchi, floridanus* var. *costaricensis, C. limonensis, musaensis, toroensis, planiliratus* var. *bocasensis, C. harrisi,* **spp.** & **varr. n.,** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** pp. 42–54.—*C.,* LAVILLE **363.**

†*Cythara terminata* var. *costaricensis, C. limata* **var.** & **sp. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 77.

*Daphnella* with *D. cestrum, cheverti, granata, sigmastoma,* **spp. n.,** Queensland, HEDLEY Rec. Austral. Mus. **13** pp. 324–330.

†*Daphnella,* HEDLEY **285.**

*Daphnellopsis* with *D. murex* **sp. n.** Queensland, HEDLEY Rec. Austral. Mus. **13** p. 356.

†*Drillia glabriuscula* **sp. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 40.—*D.* with *D. papaya, coccos, chiriquiensis, citria, aquanica, limonica, bocataroensis, theobroma, aurantia, musacina, estrellana, limonetta, carruca, limonensis, cristobali, bocasensis, aquaensis, musa, lithocolletoides, cocosina* **spp. n.,** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** pp. 61–75.—*D. winchesterae, macilenta rectaxis, gatunensis alia* **sp.** & **subspp. n.,** Tertiary Santo Domingo, PILSBRY Proc. Acad. Nat. Sci. Philad. **73** pp. 318–319.—*D.* (*Crassispira*) *kamaensis, cotteri,* **spp. n.,** Tertiary Burma, VREDENBURG Rec. Geol. Surv. Ind. **51** p. 283.—*D.* (*Tripia*) *cureti, dumasi,* **spp. n.** Eocene France, COSSMANN Bul. Soc. Sci. Nat. Nantes **5** pp. 59–60.

†*Eopleurotoma nigeriensis* **sp. n,** Eocene Nigeria, NEWTON Geol. Surv. Nigeria **3** p. 23.

*Epideira* with *E. gabensis* Victoria; *E. torquata* Tasmania, **spp. n.,** HEDLEY Rec. Austral. Mus. **13** pp. 228–231.

*Etrema* with *E. acricula, capillata, catapasta, culmea, curtisiana, elegans, firma, labiosa, orirufa, polyderma, ravella, tortilabia,* Queensland; *E. sparula* S. Australia, **spp. n.,** HEDLEY Rec. Austral. Mus. **13** pp. 272–285.

*Eucithara* with *E. alacris, arenivaga, brocha, monochoria, moraria, miriamica, phyllidis,* **spp. n.,** Queensland, HEDLEY Rec. Austral. Mus. **13** pp. 260–272.

*Eucyclotoma* with *E. nobilis* **sp. n.** Coral Sea, HEDLEY Rec. Austral. Mus. **13** pp. 354–356.

*Exomilus,* HEDLEY **285.**

*Filodrillia* **gen. n.** [*Turridae*] with *F. columnaria, ornata,* Tasmania; *F. mucronata, stadialis, steira* New S. Wales, **spp. n.,** HEDLEY Rec. Austral. Mus. **13** pp. 220–225.

†*Filodrillia,* HEDLEY **285.**

*Gemmula* with *G. hombroni* **nom. n.** for *Pleurotoma fusca,* HEDLEY Rec. Austral. Mus. **13** pp. 217–218.

†*Gemmula,* HEDLEY **285.**

†*Genotia pseudopannus, ogurana,* **spp. n.,** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** pp. 37–38.

†*Glyphostoma moinica* **sp. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 76.

*Guraleus* with *G. costatus* New S. Wales; *G. c.* var *wilesianus* S. Australia; *G. fascinus* and var. *stephenensis, G. morologus, permutatus* New S. Wales; *G. nitidus* S. Australia, **spp.** & **var. n.** HEDLEY Rec. Austral. Mus. **13** pp. 311–323.

†*Hemiconus rhytidophorus* **sp. n.** Eocene France, CROSSMANN Bul. Soc. Sci. Nat. Nantes **5** p. 67.

*Hemidaphne,* HEDLEY **285.**

*Hemilienardia* with *H. hersilia, homochroa,* **spp. n.,** Queensland, HEDLEY Rec. Austral. Mus. **13** pp. 294–297.

†*Hemilienardia*, HEDLEY **235**.

*Heterocithara* **gen. n.** with *H. concinna, erismata, seriliola, transenna,* **spp. n.**, Queensland, HEDLEY Rec. Austral. Mus. **13** pp. 297–300.

†*Heterocithara*, HEDLEY **285**.

*Inquisitor* with *I. coriorudis, lacertosus, petilinus* New S. Wales; *I. fibratus, flindersianus, formidabilis, granobalteus, lassulus* Queensland, **spp. n.**, *I. spurius* **nom. mut.** for *Pleurotoma tuberculata* Gray 1839, HEDLEY Rec. Austral. Mus. **13** pp. 236–247.

*Iredalea*, HEDLEY **285**.

*Leiocithara* **gen. n.** [*Turridae*], HEDLEY Rec. Austral. Mus. **13** p. 268.

*Leucosyrinx*, HEDLEY **285**.

†*Leucosyrinx chloris* **sp. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 59.

*Lienardia* with *L. falsaria* New Caledonia; *L. corticea, fallaciosa, farsilis, gracilis, multinoda, periscelina, punctilla, ralla, rosella* Queensland, **spp. n.** HEDLEY Rec. Austral. Mus. **13** pp. 282, 285–294.

*Macteola* with *M. segesta* Chenu **var. n.** *cinctura* Queensland, HEDLEY Rec. Austral. Mus. **13** pp. 323–324.

†*Mangilia fukuchiana, M.* (*Cythara*) *rugosolabiata, oyuana,* **spp. n.**, Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokio **44** pp. 42–43.—*M.* (*Glyphostoma*) *augsanana* **sp. n.** Java **sp. n.** Tertiary, MARTIN Samml. Geol. Reichsmus. **1** p. 450.

*Marita* **subgen. n.** [*Turridae*], HEDLEY Rec. Austral. Mus. **13** p. 312.

*Melatoma dampieria* W. Australia; *M. duplaris* Queensland; *M. eburnea, spadicina* New S. Wales; *M. lygdina* Victoria, **spp. n.**, HEDLEY Rec. Austral. Mus. **13** pp. 249–253.

*Mitrithara* **gen. n.** [*Turridae*] with *M. columnaria* Tasmania; *M. proles* New S. Wales, HEDLEY Rec. Austral. Mus. **13** pp. 233–236.

†*Mitrithara*, HEDLEY **285**.

*Nepotilla* with *N. tropicalis* **sp. n.** Queensland, HEDLEY Rec. Austral. Mus. **13** pp. 335–338.

*Paraclathurella* with *P. aditicola, clothonis,* **spp. n.**, Queensland, HEDLEY Rec. Austral. Mus. **13** pp. 305–306.

†*Parviterebra raritans* **sp. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 36.

†*Peratotoma ozodocolpa* **nom. rect.** (*P. ozocolpa*) Eocene France, COSSMANN Bul. Soc. Sci. Nat. Nantes **5** p. 64.

†*Pleurotoma otagoënsis* **sp. n.** Cretaceous N. Zealand, WILCKENS Pal. Bul. Geol. Surv. N.Z. **9** p. 35.—*P.* (*Eupleurotoma*) *dalimieri* **sp. n.** Eocene France, COSSMANN Bul. Soc. Sci. Nat. Nantes **5** p. 58.

*Pseudodaphnella* with *P. attenuata, canistra, harenula, oligoina, punicea, retellaria, stipata* Queensland; *P. mayana* Tasmania, **spp. n.**, HEDLEY Rec. Austral. Mus. **13** pp. 344–354.

*Pseudorhaphitoma* with *P. axicula, bipyramidata, crudelis, styracina, transitans* Queensland; *P. informis* New S. Wales, **spp. n.**, HEDLEY Rec. Austral. Mus. **13** pp. 306–311.

*Scrinium* **gen. n.** with *S. furtivum* **sp. n.** New S. Wales, HEDLEY Rec. Austral. Mus. **13** pp. 358-260.

*Splendrillia* **subgen. n.** [*Turridae*], HEDLEY Rec. Austral. Mus. **13** p. 250.

†*Surcula africana* **sp. n.** Eocene Nigeria, NEWTON Geol. Surv. Nigeria **3** p. 22.—*S. aretasi* **sp. n.** Eocene Belgium LÉRICHE Bul. Soc. Géol. Belge. **31** p. 183.—*S. occidentalis, thompsoni,* **spp. n.**, Quaternary Peru, WOODS in BOSWORTH Geol. of Peru **1922** pp. 106–107. —*S. promensis* and var. *silistrensis* **sp. & var. n.** Tertiary India, VREDENBURG Rec. Geol. Surv. Ind. **51** pp. 304–308.—*S.* (*Pleurofusia*) *scala* **sp. n.** Tertiary Burma, VREDENBURG Rec. Geol. Surv. Ind. **51** p. 282.

*Teleochilus*, HEDLEY **285**.

†*Teleochilus*, HEDLEY **285**.

†*Terebra augsanana* **sp. n.** Java Tertiary, MARTIN Samml. Geol. Reichsmus **1** p. 447.—*T. chibana, smithi, quadriarata, latisulcata, suavidica, tsuboiana,* **spp. n.**, Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** pp. 32–35.—*T. dalabeensis, T.* (*Duplicaria*) *theobaldi, cotteri, woodwardiana,* Mart. var. *mindegyiensis, myaunguensis, T.* (*Subula*) *cossmanni, T.* (*Myurella*) *promensis, birmanica, kyudawonensis, martini, hornelli euglyptica, tipperi, myuros,* Lk. var *obeliscus, T.* (*M.*) *oldhami, inter-*

*media*, *T.* (*Hastula hirasei*, *lepperi*, *sethuramae*, *calamaria*, *pectinata*, *pagoda*, *mayoi*, *tittabweensis*, *iravadica*, *stuarti*, *herklotsi*, Mart. var. *arundinea*, **spp.** & **varr. n.** Tertiary Burma VREDENBURG Rec. Geol. Surv. Ind. **51** pp. 346–351. —*T. gausapata* **var. n.** *herviderana* Tertiary Peru, SPIEKER Johns Hopkins Univ. Stud. Geol. **3** p. 35.—*T. spirifera*, Dall. var. *midiensis*, *T. estrellana*, *costaricensis*, *T. benthalis*, Dall. var. *bocasensis*, *T. pumbriensis*, **spp.** & **varr. n.**, Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** pp. 39–41. —*T.* (*Subula*) *noetlingi*, *T.* (*Myurella*) *quettensis*, **spp. n.**, Tertiary Burma VREDENBURG Rec. Geol. Surv. Ind. **51** p. 281.

†*Terebridae*, PILSBRY **473** p. 315.

*Turricula*, HEDLEY **285.**

†*Turricula lavinoides* & var. *limonensis*, *T. taurina*, *terryi*, **spp.** & **var. n.**, Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** pp. 55–57.—*T.*, HEDLEY **285.**

*Turridrupa* **gen. n.** [*Turridae*] with *T. deceptrix*, *pertinax*, **spp. n.**, Queensland, HEDLEY Rec. Austral. Mus. **13** pp. 226–228, 359.

*Turris*, HEDLEY **285.**

†*Turris conspicua*, *altispira*, **spp. n.**, Tertiary Tasmania, MAY Papers and Proc. R. Soc. Tasmania **1921** pp. 11–12. —*T.*, HEDLEY **285.**

†*Turritidae*, PILSBRY **473** p. 316.

*Veprecula* with *V. scala*, *vacillata* and var. *paucicostata*, **spp.** & **var. n.**, Queensland, HEDLEY Rec. Austral. Mus. **13** pp. 330–331.

VOLUTIDAE, OLIVIDAE, MARGINELLIDAE, HARPIDAE.

†*Ancilla hinomotoensis* **sp. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 48.—*A.* (*Sparella*) *birmanica* **sp. n.** Tertiary Burma, VREDENBURG Rec. Geol. Surv. Ind. **51** p. 286.

†*Ancillaria aquaensis* **sp. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 94.

†*Athleta lugardi* **sp. n.** Eocene Nigeria, NEWTON Geol. Surv. Nigeria **3** p. 25.—*A.* (*Volutospina*) *jacobsi* **sp. n.** Tertiary Burma, VREDENBURG Rec. Geol. Surv. Ind. **51** p. 286.

†*Cryptospira* (*Gibberula*) *allixi* **sp. n.** Eocene France, COSSMANN Bul. Soc. Sci. Nat. Nantes **5** p. 69.

†*Harpa americana* **sp. n.** Tertiary Santo Domingo, PILSBRY Proc. Acad. Nat. Sci. Philad. **73** p. 337.

*Marginella goubini*, *hervieri*, *montrouzieri* New Caledonian waters; *M.* (*Volvaria*) *micros* Pacific; *M. cherubini* Seychelles **spp. n.**, BAVAY J. conchliol. Paris **67** pp. 60–64.

†*Marginella augsanana* **sp. n.** Tertiary MARTIN Samml. Geol. Reichsmus **1** p. 452.—*M. atkinsoni*, *corpulenta*, *subquinquidens*, *rotunda*, *altispira* **spp. n.** Tertiary Tasmania, MAY Papers and Proc. R. Soc. Tasmania **1921** pp. 9–16. —*M. cotamago*, *perovulum*, **spp. n.**, Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 49.—*M. latissima* var. *pilsbryi*, *M. collina*, *musacina* **var.** & **spp. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** pp. 96–98.—*M. kitsoni* **sp. n.** Tertiary Victoria, CHAPMAN Rec. Geol. Surv. Victoria **4** p. 321.—*M.* (*Stazziana*) *chantegraini* **sp. n.** Eocene France, COSSMANN Bul. Soc. Sci. Nat. Nantes **5** p. 68.

†*Marginellidae*, PILSBRY **473** p. 337.

†*Oliva testacea*, Lk. var *costaricensis*, *O. mancinella* **var.** & **sp. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** pp. 90–91.

†*Olivancillaria eocenica* Quaternary; *O.* (*Agaronia*) *peruviana* Tertiary, **spp. n.**, WOODS in BOSWORTH Geol. of Peru **1922** pp. 105–106.

†*Olivella goliath*, *limonensis* and var. *bocasensis*, **spp.** & **var. n.**, Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** pp. 92–94.—*O. minbuensis* **sp. n.** Tertiary Burma, VREDENBURG Rec. Geol. Surv. Ind. **51** p. 286.—*O. spretoides* **sp. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 47.

†*Olividae*, PILSBRY **473** p. 334.

*Pseudomarginella*, COOKE **134.**

†*Scaphella costaricana*, **sp. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 100.

*Voluta*, CIRIA **119.**

†*Voluta* (*Aulica*) *sexuaplicata* **sp. n.** Tertiary, CHAPMAN Proc. R. Soc. Vict. **35** p. 15.

*Volutidae*, COOKE **135.**

†*Volutidae*, PILSBRY **473** p. 338.

†*Volutospina conicoturrita, multispinosa*, **spp. n.** Eocene Nigeria, NEWTON Geol. Surv. Nigeria **3** pp. 27–28.

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†*Amphelissa* **gen. n.**, ETHERIDGE Rec. Geol. Surv. N.S.W. **10** pp. 1–11.

†*Encyclus pacificus* **sp. n.** Trias S. America, JAWORSKI N. Jahrb. Min. Stuttgart Beil. Bd. **47** p. 140.

†*Eutritonium* with *E.* (*Sassia*) *pilula, goustense* var. *semitextum*, **spp. n.**, Eocene France, CROSMANN Bul. Soc. Sci. Nat. Nantes **5** pp. 84–88.

†*Lapparentia* ? *ventricosior* **sp. n.** Eocene France, COSSMANN Bul. Soc. Sci. Nat. Nantes **5** p. 118.

†*Polyamma axinoides* [? **sp. n.**] Devon. N. S. Wales, ETHERIDGE Rec. Geol. Surv. N.S.W. **10** pp. 1–11.

†*Pseudoscalites subarmatus* **sp. n.** Trias S. America, JAWORSKI N. Jahrb. Min. Stuttgart Beil. Bd. p. 143.

†*Scalitina montana* **subgen.** & **sp. n.** Devon. Germany, SPRIESTERSBACH Jahrb. Geol. Landesanst. **38** T.1. pp. 508–509.

## Opisthobranchia.

*Acanthodoris*, O'DONOGHUE **440** & **441** p. 164.—*A.*, O'DONOGHUE & O'DONOGHUE **443.**

†*Acera* with *A. barremiensis* **sp. n.** Barremian France, GILLET Bul. Soc. Geol. Paris **21** p. 40.

*Aceridae*, ODHNER **438** p. 4.

†*Actaeon costaricensis* **sp. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 35.

†*Actaeonella spitensis* **sp. n.** Senonian Sinai, HOPPE Zs. D. Palästina-Ver. **1922** p. 137.

*Actaeonidae*, ODHNER **438** p. 2.

†*Actaeonina transatlantica, ovata*, **spp. n.** Lias Argentina, BEHRENDSEN Act. Acad. Ci. Cordoba **7** p. 168.

†*Acteocina bullata*, Kien. **var. n.** *costaricana* Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 35.—*A.*, DALL 166.—*A.*, STRONG **585.**

†*Acteocinidae*, PILSBRY **473** p. 310.

†*Acteonidae*, PILSBRY **473** p. 310.

*Aeolidia collaris* **sp. n.** Masatierra, ODHNER Nat. hist. of Juan Fernandez **3** 2 p. 224 figs.—*A.*, O'DONOGHUE **439, 440** & **441** p. 165.—*A.*, O'DONOGHUE & O'DONOGHUE **443.**

*Aeolididae* with *Cuthonia distans, Coryphella borealis*, **spp. n.**, Norway, ODHNER Nyt. Mag. Naturv. Kristiania **60** pp. 28–34.

†*Akeridae*, PILSBRY **473** p. 313.

*Amphorina* with *A. columbiana* **sp. n.** Vancouver Isd. region, O'DONOGHUE Trans. Canad. Inst. **14** p. 160.

*Anisodoris*, O'DONOGHUE **440** & **441** p. 163.

*Aplysia punctata*, S. **530.**

*Archidoris*, O'DONOGHUE **440** & **441** p. 163.—*A.*, O'DONOGHUE & O'DONOGHUE **443.**—*A.*, SCOTT **548.**

†*Avellanopsis* **gen. n.**, RICHE & ROMAN Trav. Lab. géol. Lyon **1** p. 94.

†*Bullariidae*, PILSBRY **473** p. 313.

*Bullidae*, CHRISTENSEN **117** pp. 98–101.

†*Bulinella* (*Cylichnina*) *umbilicata* var. *subelongata* **nom mut.** for *Bulla elongata*, Eichw., GRIPP Zs. D. geol. Ges. Abh. Berlin **74** p. 191.

†*Bulla multiarata* **sp. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 29.

*Cadlina*, O'DONOGHUE **441** p. 164.—*C.*, O'DONOGHUE & O'DONOGHUE **443.**

*Calma glaucoides*, EVANS **202.**

*Cavolina* (=*Hermissenda*) *crassicornis*, Esch., O'DONOGHUE **442.**—*C.*, O'DONOGHUE **439.**

†*Cavolinia cerullii, zamboninii* [? **spp. n.**] Miocene Italy, CHECCHIA-RISPOLI Bol. Com. geol. Roma **48** 2 pp. 24–26.

*Chioraera*, O'DONOGHUE **440** & **441** p. 165.—*C.*, O'DONOGHUE & O'DONOGHUE **443.**

†*Cinulia washitaensis* **sp. n.** Cretaceous U.S.A., ADKINS Univ. Texas Bul. **1856** p. 143.—*C.*, BEHRENDSEN **49** p 212.

†*Clio distefanoi, aichinoi, saccoi* [? **spp. n.**] Miocene Italy, CHECCHIA-RISPOLI Bol. Com. geol. Roma **48** 2 pp. 20–22.

*Conularia mediorhenana* **sp. n.** Devon. Germany, FUCHS Abh. geol. Landesanst. **79** p. 70.

†*Conularia*, DYER **196a.**

*Coryphella* with *C. longicaudata* **sp. n.** Vancouver Isd. region, O'DONOGHUE Trans. Canad. Inst. **14** p. 156.—*C.*, O'DONOGHUE **440.**

†*Creseis gageliana* **sp. n.** Tertiary, GRIPP Zs. D. geol. Ges. Abb. Berlin **74** p 192.

*Cuthona*, O'DONOGHUE **441** p. 161.

†*Cuvierina paronai* [? **sp. n.**] Miocene Italy, CHECCHIA-RISPOLI Bol. Com. Geol. Roma **48** 2 p. 6.

†*Cylichna thomsoniana* **sp. n.** Cretaceous N. Zealand, WILCKENS Pal. Bul. Geol. Surv. N.Z. **9** p. 24.

*Dactylopus* **gen. n.** *D. michaelsarsii* **sp. n.** N. Atlantic, BONNEVIE Zool. Anz. **53** pp. 145–152.

*Dendronotidae*, ODHNER **438** p. 22.

*Dendronotus*, KJERSCHOW-AGERSBORG **345.**—*D.*, O'DONOGHUE **440** & **441** p. 164.—*D.*, SCOTT **548.**

*Diaphanidae*, ODHNER **438** p. 3.

*Diaulula*, O'DONOGHUE **440** & **441** p. 163.—*D.*, O'DONOGHUE & O'DONOGHUE **443.**

*Dirona*, O'DONOGHUE **440** & **441** p. 164.—*D.*, O'DONOGHUE & O'DONOGHUE **443.**

*Discodoris*, O'DONOGHUE **441** p. 151.

†*Dolabella* (*Sabaziella*) *texturata* **sp. n.** Pliocene Italy, ISSEL Atti soc. lig. Genova **1** p. 123.

*Dorididae*, ODHNER **438** p. 22.

*Doris* with *D. echinata* **sp. n.** Vancouver Isd. region, O'DONOGHUE Trans. Canad. Inst. **14** p. 149.

*Doriopsidae*, O'DONOGHUE **439.**

*Dotonidae* with *Doto*, anatomy of, ODHNER **438** pp. 34–45.

*Elysia*, ODHNER **438** p. 45.

†*Eriptycha punamutica* **sp. n.** Cretaceous N. Zealand, WILCKENS Pal. Bul. Geol. Surv. N.Z. **9** p. 23.

*Fiona*, O'DONOGHUE **439.**

*Flabellina*, O'DONOGHUE **439.**

*Galvina* with *G. olivacea* **sp. n.**, Vancouver Isd. region, O'DONOGHUE Trans. Canad. Inst. **14** p. 158.—*G.*, O'DONOGHUE & O'DONOGHUE **443.**

*Goniaeolididae* with *Goniaeolis typica* ODHNER **438** p. 10.

*Goniodorididae*, ODHNER **438** p. 25.

*Haminea*, RICHARDS **514.**

*Hermissenda*, O'DONOGHUE **440** & **441** p. 165.—*H.*, O'DONOGHUE & O'DONOGHUE **443.**

*Janolus*, O'DONOGHUE **439.**

*Juanella* **gen. n.** (Fam. *Cadlinidae.*) *sparsa* **sp. n.** Masatierra, ODHNER Nat. hist. of Juan Fernandez **3** 2 p. 225 figs.

*Laila*, O'DONOGHUE **441** p. 164.—*L.*, O'DONOGHUE & O'DONOGHUE **443.**

*Lamellidoris*, O'DONOGHUE **440.**—*L.*, O'DONOGHUE & O'DONOGHUE **443.**

*Limacinidae*, ODHNER **438** p. 6.

†*Limacinidae*, PILSBRY **473** p. 308.

*Limapontia*, ODHNER **438** p. 45.

*Melibe leonina*, KJERSCHOW-AGERSBORG **344.**—*M.*, O'DONOGHUE **439.**

*Nectophyllirhoe michaelsarsi* fam. *Nectophyllirhoidae* **nom. n.** for *Dactylopus michaelsarsii* Bonnevie, HOFFMANN Zool. Anz. **54** p. 304.

†*Philine pygmaea, takatensis* **sp. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 28.

*Philinidae*, ODHNER **438** p. 4.

*Pleurobranchidae*, ODHNER **438** p. 6.

*Pleurophyllidia*, O'DONOGHUE **440.**

*Pleurophyllidiidae*, ODHNER **438** p. 45.

*Polycera*, SCOTT **548.**

*Polyceridae*, ODHNER **438** p. 23.

*Pseudodorididae*, ODHNER **438** p. 24.

†*Retusa sulcata* **subsp. n.** *fossilis* Tertiary Santo Domingo, PILSBRY Proc. Acad. Nat. Sci., Philad. **73** p. 311.

†*Ringiculidae*, PILSBRY **473** p. 331.

*Rostanga*, O'DONOGHUE **441** p. 152.

*Scaphandridae*, ODHNER **438** p. 3.

†*Scaphandridae*, PILSBRY **473** p. 313.

†*Solidula clathrata* **sp. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 23.

*Stiliger pica* **sp. n.** Chilka Lake, SEWELL & ANNANDALE Mem. Ind. Mus. **5** p. 700.—S., ODHNER **488** p. 45.

†*Styliola lamberti* [? **sp. n.**] Miocene Italy, CHECCHIA-RISPOLI Bol. Com. Geol. Roma **48** 2 p. 10.

†*Talahabia dentifera* **gen. & sp. n.** Java **sp. n.** Tertiary, MARTIN Samml. geol. Reichsmus **1** p. 446.

†*Tentaculites roemeri* **sp. n.** Devon. Germany, DAHMER Jahrb. geol. Landesanst. **37** T.1 p. 455.

*Tethys willcoxi*, SANFORD **534.**

*Thecacera*, O'DONOGHUE **439.**

†*Tornatella*, BEHRENDSEN **49** p. 192.

*Tornatinidae*, ODHNER **438** p. 2.

*Triopha*, O'DONOGHUE **439** & **441** p. 164.

*Tritonia*, O'DONOGHUE **441** p. 148.

*Tritoniidae*, ODHNER **438** p. 6.

†*Vaginella lapugyensis*, Kittl. **var. n.** *garganica* Miocene Italy, CHECCHIA-RISPOLI Bol. Com. geol. Roma **48** 2 p. 13.

†*Volvula acutaeformis* **sp. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 26.

PULMONATA.

ELLOBIIDÆ, SIPHONARIIDÆ, CHILINIDÆ, LIMNAEIDÆ, PLANORBIDÆ, ANCYLIDÆ, PHYSIDÆ.

†*Adelinella* **subgen. n.** (*Radix*) Tertiary, WENZ Senckenbergiana Frankfurt a. M. **4** p. 5.

*Amphipeplea*, HERFS **288** p. 564.

*Ancylidae*, BAKER **36** p. 63.

*Ancylus* with *A.* (*Ferrissia*) *viola* **sp. n.** Manipur, ANNANDALE & PRASHAD Rec. Ind. Mus. **22** pp. 588–592.—*A.*, DEGNER **172.**—*A.*, WEBER **636** p. 483.

*Auricula* with *A. limnaeiformis, percha*, **spp. n.**, Sumatra, ANNANDALE in PRASHAD Rec. Ind. Mus. **22** pp. 467–468.

*Auriculastra acuta* **sp. n.** Portuguese S.E. Africa, CONNOLLY Ann. Mag. Nat. Hist. **10** p. 121.

*Bullinus*, ANNANDALE **16.**—*B.*, GERMAIN **237.**

†*Ellobium citharellaeforme* **nom. n.** Tertiary, WENZ Senckenbergiana Frankfurt a. M. **4** p. 5.

†*Galba* (*G.*) *halavatsi, gaudryi* **nom. n.** Tertiary, WENZ Senckenbergiana Frankfurt a. M. **4** p. 6.

*Gyraulus*, WENZ **644.**

†*Gyraulus multicingulatus* **nom. n.** for *Planorbis striatus*, Brus.; *G. secensis* **nom. n.** for *P.* (*G.*) *tenuistriatus*, Lör., WENZ Nachrbl. D. Malak. Ges. **1919** p. 74.—*G.*, GEYER **241.**

*Hippeutis junodi* **sp. n.** Portuguese S.E. Africa, CONNOLLY Ann. Mag. Nat. Hist. **10** p. 121.

*Indoplanorbis* **gen. n.** Type *Planorbis exustus*, ANNANDALE & PRASHAD Rec. Ind. Mus. **22** p. 578.

*Intha* **gen. n.** *Planorbinae* with *I. capitis* **sp. n.** Burma, ANNANDALE Rec. Ind. Mus. **24** pp. 361–362.

*Isidora shackoi*, CAWSTON **104** & **105**.—*I.*, DEGNER **172.**

*Limnaeidae*, ANNANDALE **13** p. 133.

*Limnaea* [*vide etiam Lymnaea*] with *L. ovalior* **sp. n.** N.E. India, ANNANDALE & PRASHAD Rec. Ind. Mus. **22** pp. 565–576.—*L. glabra*, BOYCOTT **88.**—*L. natalensis*, CAWSTON **104.**—*L. ovata*, VAN HERWERDEN **613.**—*L. pereger*, BOYCOTT **86.**—*L. stagnalis*, CRAPPER **154.**—*L. s.*, LAWSON **365.**—*L. s.*, LUDFORD **376.**—*L.*, GERMAIN **237** & **238.**—*L.*, WEBER **636** p. 473.

†*Limnaea navaroi* **sp. n.** Miocene Spain, GOMÉZ Mem. Com. Inv. Pal. Madrid **30** p. 118.

*Lymnaea* [*vide etiam Limnaea*] (*Galba*) *winnebagoensis*, Wisconsin; *minnetonkensis* Minesota, **spp. n.**, BAKER Nautilus **35** pp. 22–24.

*Lymnaeidae*, BAKER **36** p. 65.

†*Malexia pisolina nana* **nom. n.** Tertiary, WENZ Senckenbergiana Frankfurt a. M. **4** p. 7.

*Melampus pascus* **sp. n.** Easter Island, ODHNER Nat. hist. of Juan Fernandez **3** 2 p. 249 fig.

†*Palaeoleuca* **subgen. n.** Genotype *Leuconia* (*P.*)*remiensis* (Boissy) Tertiary WENZ Senckenbergiana Frankfurt a. M. **4** p. 8.

*Physa fontinalis*, CRAPPER **153.**—*P. heterostropha*, COOPER **142.**—*P.* ANNANDALE **16.**

*Physastra* with *P. doopi* **sp. n.** Sumatra, PRASHAD Rec. Ind. Mus. **22** pp. 474–476.

*Physidae*, BAKER **36** p. 64.

*Physopsis africana*, CAWSTON **104** & **106.**—*P.*, CAWSTON **105.**—*P.*, GERMAIN **238.**

*Planorbidae*, ANNANDALE **13** p. 134 and **15.**—*P.*, BAKER **36** p. 64.

*Planorbis exustus* varr. *vitrinoides*, *deformis* [? India]; *P.* (*Planorbina*) *blauneri* West Indies **varr. & sp. n.**, GERMAIN Rec. Ind. Mus. Calcutta **21** 1921 pp. 39, 47.—*P. lemnasum* **sp. n.** France ASTRE Bul.soc. hist. nat. Toulouse **49** pp. 231–239.—*P.* with *P.* (*Gyraulus*) *saltensis* **sp. n.** Punjab, GERMAIN Rec. Ind. Mus. Calcutta **21** 1922 pp. 81.–128. —*P. metidjensis*, BETTENCOURT & BORGES **60.**—*P. pfeifferi*, CAWSTON **104.** —*P. umbilicatellus*, BAKER **38.**—*P.*, CAWSTON **105.**—*P.*, DEGNER **172.**—*P.*, KHALIL **335.**—*P.*, WEBER **636** p. 482.

†*Planorbis fischeri* **nom. n.** for *P. submarginatus* P. Fisch. WENZ Nachrbl. D. Malak. Ges. **1919** p. 74.—*P.* (*Anisus*) *coislinensis*, *P.* (*Segmentina*) *bureaui*, **spp. n.**. Eocene France, COSSMANN Bul. soc. sci. nat. Nantes **5** p. 55.—*P.* (*Armiger*) *lluecai* **sp. n.** Miocene Spain, GOMÉZ Mem. Com. Inv. Pal. Madrid **30** p. 132.—*P.*, RAUTHER **501.**

†*Pomarinula* **subgen. n.** Genotype *Marinula* (*P.*) *pfeifferi* (Desh.) Tertiary, WENZ Senckenbergiana Frankfurt a. M. **4** p. 8.

†*Radix* (*R.*) *pallaryi* **nom. n.** Tertiary, WENZ Senckenbergiana Frankfurt a. M. **4** p. 7.

SELENITIDÆ, ZONITIDÆ, LIMACIDÆ, PHYLOMICIDÆ, ARIONIDAE.

*Aegopthalmus* **gen. n.** HESSE Nachr. Bl. D. malak. Ges. **42** 1910 p. 168 [Accidentally omitted from previous records.]

*Agriolimax agrestis*, ROBSON **523.**—*A.*, LUTHER **377.**—*A.*, PILSBRY **478.**

*Archaeozonites* **gen. n.**, SANDBERGER Land u. Süssw. Conch. Vorwelt **1875** p. 404. [Accidentally omitted from previous records.]

*Arion*, PILSBRY **478** & **480.**

*Ariophantinae* **subfam.** [**n.** ?] *Zonitidae* BLANFORD & GODWIN-AUSTEN Fauna Brit. India Moll. *Testacellidae* and *Zonitidae* London **1908** p. 25.

*Binneya* **gen. n.**, COOPER Proc, Calif. Acad. Nat. Sci. **3** 1863 p. 62. [Accidentally omitted from previous records.]

*Crystallus trolli* **sp. n.** N. Italy, WAGNER Ann. Zool. Mus. Polon. Hist. Nat., Warsaw **1** p. 113.

*Durgella concinna* **sp. n.** Burma, BLANFORD & GODWIN-AUSTEN Fauna Brit. India Moll. *Testacellidae* and *Zonitidae* London 1908 p. 215.

*Euconulus*, BAKER **42.**—*E.*, WATSON **635.**

*Guppya*, BAKER **42.**

*Helicarion meruensis* **sp. n.** Meru, D'AILLY Kgl. Schwed. Ak. Wiss. Stockholm **1910** p. 7.

*Holkeion* **gen.** [**n.**] *Zonitidae*, BLANFORD & GODWIN-AUSTEN Fauna Brit. India Moll. *Testacellidae* and *Zonitidae* London **1908** p. 239.

*Hyalinia lucida*, SHAW **553.**—*H.* WATSON **635.**

*Kerkophorus perfragilis* **sp. n.** N. Transvaal, CONNOLLY Proc. Malac. Soc. **15** p. 72.

*Limax flavus* var. *virescens*, ADAMS **2.** —*L. maximus*, HOFFMANN **293** & **295.** —*L. tenellus*, OLDHAM **445.**—*L. t.* WATSON **634.**—*L.*, PILSBRY **478** & **480.**

*Macrochlamyinae* **subfam.** [**n.**] *Zonitidae*, BLANFORD & GODWIN-AUSTEN Fauna Brit. India Moll. *Testacellidae* and *Zonitidae* London **1908** p. 77.

*Macrochlamys micholitzi* **sp. n.** Burma EHRMANN SitzBer. natf. Ges. **45–48** p. 2.

*Martensia* with *M. meruensis* **sp. n.** Meru, D'AILLY Kgl. Schwed. Ak. WISS. Stockholm **1910** p. 13.

*Microcystina*, BOETTGER **65.**

†*Macrozonites* **subgen. n.** Genotype *Grandipatula*, (*M.*) *umbilicalis* (Desh.) Tertiary, WENZ Nachr. Bl. D. Malak. Ges. **1919** p. 77.

*Milax* (=*Amalia*) *gagates*, CARTER **102.**

*Nesonanina* **gen. n.**, C. R. BOETTGER Abh. Senckenb. Nat. Ges. **36** heft 3 1918 p. 288 [Accidentally omitted from previous records].

*Oxychilus* Fitz. WATSON **635.**

†*Palaeoxestina* **gen. n.** Genotype *P. occlusa*, (Edwards) Tertiary, WENZ Nachrbl. D. Malak. Ges. **1919** p. 77.

*Paraegopis* **gen. n.**, HESSE Nachr. Bl. D. malak. Ges. **42** 1910 p. 168 [Accidentally omitted from previous records].

*Parvatella* **gen. n.** *Zonitidae*, BLANFORD & GODWIN-AUSTEN Fauna Brit. India Moll. *Testacellidae* & *Zonitidae* London **1908** p. 145.

*Petasina*, BERRY **56.**—*P.*, WATSON **635.**

*Polita*, PILSBRY **474.**—*P.*, WATSON **635.**

†*Provitrina* **subgen. n.** Genotype *Vitrina* (*P.*) *rillyensis* (Boissy) Tertiary WENZ Nachrbl. D. Malak. Ges. **1919** p. 78.

*Sakiella* **gen.** [**n.**] *Zonitidae*, BLANFORD & GODWIN-AUSTEN Fauna Brit. India Moll. *Testacellidae* & *Zonitidae* London **1908** p. 237.

*Sarama* **gen.** [**n.**] *Zonitidae*, BLANFORD & GODWIN-AUSTEN Fauna Brit. India Moll. *Testacellidae* & *Zonitidae* London **1908** p. 275.

*Satiella* **gen.** [**n.**] *Zonitidae* with *S. flexilis*, *compressa*, *pertenuis*, **spp. n.**, India, BLANFORD & GODWIN-AUSTEN Fauna Brit. India Moll. *Testacellidae* & *Zonitidae* London **1908** pp. 221–224.

*Sesara bidentifera* **sp.** [**n.** ?] Burma, BLANFORD & GODWIN-AUSTEN Fauna Brit. Ind. Moll. *Testacellidae* & *Zonitidae* London **1908** p. 245.

*Sitala diaphana* **sp. n.** Portuguese S.E. Africa, CONNOLLY Ann. Mag. Nat. Hist. **10** p. 116.—*S. vulcania* **sp. n.** India, BLANFORD & GODWIN-AUSTEN Fauna Brit. India Moll. *Testacellidae* & *Zonitidae* London **1908** p. 228.

*Sophina forabilis* **var** [**n.** ?] *bensoni* Burma, BLANFORD & GODWIN-AUSTEN Fauna Brit. India Moll. *Testacellidae* & *Zonitidae* London **1908** p. 289.

*Sophininae* **subfam.** [**n.**] *Zonitidae* BLANFORD & GODWIN-AUSTEN Fauna Brit. India Moll. *Testacellidae* & *Zonitidae* London **1908** p. 283.

*Syama* **subgen.** [**n.**] *Zonitidae* with *S. prona* **var.** [**n.** ?] *huttoni*, *S. annandalei* [**sp. n.** ?] & *S.* ? *theobaldi* **sp. n.** India, BLANFORD & GODWIN-AUSTEN Fauna Brit. India Moll. *Testacellidae* & *Zonitidae* London **1908** pp. 152–157.

*Thapsia cavernicola*, Usambara, *T. silvaepluviosae*, Meru; *T. radiata*, *kibonotoensis*, Kilimandjaro, **spp. n.**, D'AILLY Kgl. Schwed. Ak. Wiss. Stockholm **1910** pp. 10–11.

*Trochomorpha* (*Videna*) *planorbis perspectivica* **subsp. n.** Malay Archipelago, BOETTGER Abh. Senckenb. Naturf. Ges. **35** p. 372.

*Trochonanina membranacea* **sp. n.** Kilimandjaro, D'AILLY Kgl. Schwed. Ak. Wiss. Stockholm **1910** p. 14.—*T.*, GERMAIN **238.**

*Trochozonites* with *T. meruensis* **sp. n.** Meru D'AILLY Kgl. Schwed. Ak. Wiss. Stockholm **1910** p. 12.

†*Vitrea subrimatula* **sp. n.** Miocene, WENZ Senckenbergiana, Frankfurt a. M. **3** p. 26.

*Vitrina* with *V. kiboschoensis*, *ericinellae*, *viridisplendens*, **spp. n.**, Kilimandjaro, D'AILLY Kgl. Schwed. Ak. Wiss. Stockholm **1910** pp. 8–9.—*V. major*, BOYCOTT **85.**

*Xesta*, BOETTGER **65.**

*Zonitidae*, KOBELT **347.**

*Zonitoides cookei* **sp. n.** Vancouver Isd., PILSBRY Nautilus **35** p. 38.—*Z.* (*Pseudohyalina*), BAKER **42.**

HELICIDÆ.

*Acanthinula*, with *A. lamellata* var. *albida* **var. n.** Sweden, SUNDLER J. Conch. Leeds **16** p. 185.

*Aegista plectopyloides* **sp. n.** Burma. EHRMANN Sitz. Ber. natf. Ges. **45–48** p. 14.

*Albersia*, BOETTGER **65.**

†*Ammonitella*, HANNA **278** p. 4.

*Archelix* with *A. trarensis* **sp. n.** Algeria, KOBELT in Rossmässler's Icon. **20** pp. 19–24, 31–55.

*Assyriella* **gen. n.**, HESSE Zool. Jahrb. Syst. **27** 1908 p. 319 [Accidentally omitted from previous records].

*Austrochloritis* with *A. rouxi* **sp. n.** Malay Archipelago, BOETTGER Abh. Senckenb. Naturf. Ges. **35** pp. 379–381.

*Averellia* with *Miraverellia* **subgen. n.** Type *A. sumichrasti* Cr. & F., BAKER Ann. Arbor Mich. occ. pprs. Mus. zool. No. **106** pp. 57–60.

†*Bulimus gerundensis*, VIDAL **618.**

*Callina*, COCKERELL **121.**

*Candidula*, Kob., WATSON **635.**

*Capillifera* **gen. n.** HONIGMANN Abh. Mus. Naturk. Magdeburg Bd. **1** heft. 3 1906 p. 190 [Accidentally omitted from previous records].

†*Cepaea lepida* **nom. n.** for *Helix pachystoma*, Klein; *C. gottschicki* **nom. n.** for *H. sylvestrina*, Zieten, WENZ Nachrbl. D. Malak. Ges. **1919** p. 70.

*Chloritis*, BOETTGER **65.**

*Cochlogena*, PILSBRY **475.**

*Cochlohydra*, PILSBRY **475.**

*Crystallopsis*, BOETTGER **65.**

†*Cyrtochilus*, WENZ **646a** p. 71.

*Deserticola* **gen. n.**, HESSE Rossmässler's Iconographie Land u. Süssw. Moll. N.F. **16** 1910 p. 95. [Accidentally omitted from previous records.]

*Dorcasia*, DEGNER **172.**

*Eobania* **gen. n.** (*Helicidae*), KOBELT in Rossmässler's Icon. **23** p. 25.

*Epiglypta* **gen. n.**, PILSBRY 1893 in Tryon's Man. Conch. ser. 2 viii p. 133. [Omitted from previous records].

†*Epiphragmophora*, HANNA **278** p. 9.

*Eulota* (*E.*) *euomphala* **sp. n.** Burma, EHRMANN SitzBer. natf. Ges. **45–48** p. 12.—*E.*, BOETTGER **65.**

*Euparypha* with *E. pisana* mut. *taylori* **nom. n.** (*H. p.* s. v. *donatii* Taylor) Madeira, COCKERELL Nautilus **35** p. 45.

†*Gastrodonta imperforata* **sp. n.** Miocene Oregon, HANNA Sci. Bul. Univ., Kansas **13** p. 5.

*Gonyodiscus*, BERRY **56.**

*Gyrostoma* **gen. n.**, HESSE zool. Jahrb. Syst. **27** 1908 p. 320. [Accidentally omitted from previous records.]

*Gyrostomella* **gen. n.** HESSE Rossmässler's Iconographic Land u. Süssw. Moll. N.F. **16** 1911 p. 113. [Accidentally omitted from previous records.]

*Helicella heripensis*, STELFOX **572.**—*H.* (*C.*) *ventricosa*, VERCO **616.**—*H.*, BERRY **56.**—*H.*, PILSBRY **474.**—*H.*, WATSON **635.**

*Helicidae*, KOBELT **347.**—*H.*, TAYLOR **589** & **591.**

†*Helicodonta* (*Caracollina*) *disciformis* **nom. n.** for *Helix* (*Tectula*) *nummulina* Mayer-Eymar emend. Sandberger 1874 WENZ Nachrbl. D. Malak. Ges. **1919** p. 72.

*Helicogena*, PILSBRY **475.**

*Helicopsis* Fitz, WATSON **635.**

*Helix* with *H. sjöstedti*, *alticola*, Kilimandjaro; *H. alienus*, *H.* (*Phasis*) *meruensis*, Meru, **spp. n.**, D'AILLY Kgl. Schwed. Ak. Wiss. Stockholm **1910** pp. 13–17.—*H.* (*christophi* var.?) *atrolabioides* **sp. n.**; *H. gyrostoma* **var. n.** *quedenfeldti* Tripoli, KOBELT in Rossmässler's Icon. **20** pp. 25, 54.—*H. aspersa* var. *exalbida*, BACCHUS **31.**—*H. a.*, JARRETT **316.**—*H. depressiformis* and *H. prostrata*, PILSBRY & COOKE **483.**—*H. hortensis* var. *arenicola*, HUGGINS **300.**—*H. h.* LAWSON **364.**—*H. nemoralis* and *H. hortensis*, ALKINS **4.**—*H. n.* and *H. h.*, CARTWRIGHT **103.**—*H. n.*, GJAJA **251.**—*H. oregonensis*, HANNA **279.**—*H. pisana*, DUTERTRE **195.**—*H. p.* MOUTIER **423.**—*H. pomatia*, LIND **370.**—*H. p.* ROCHLING **526.**—*H.*, CAZIOT **108.**—*H.*, GERMAIN **237.**—*H.*, KORSCHELT **349.**—*H.*, TEN CATE **593.**

†*Helix bolivari*, *pradoi*, *vilanovai*, *H.* (*Patula*) *supracostata*, **spp. n.**, Miocene Spain, GOMÉZ Mem. Com. Inv. Pal. Madrid **30** pp. 139–144.—*H.* (*Vallonia*) *pulchella*, DE BOLÓS **170.**

*Hemphillia* **gen. n.**, BLAND & BINNEY Ann. Lyc. Nat. Hist N.Y. **10** 1872 p. 208 [Accidentally omitted from previous records].

*Hygromia limbata* with *H. l.* **var. n.** *ecarinata* England, HUGGINS J. Conch. Leeds **16** pp. 297–301.—*H. fusca*, BACCHUS **33.**—*H.*, WATSON **635.**

†*Lemniscia calva* **race. n.** *veterna* Madeira, COCKERELL Nautilus **35** p. 46.

*Leptaxis* with *L. chrysomela* var. *bifasciata, furva* var. *grandissima* **varr. n.** Nautilus **35** pp. 101–103.

*Liburnica* **gen. n.**, KOBELT Rossmässler's Iconographie Land. u. Süssw. Moll. N.F. **11** 1904 pp. 74, 131 [Accidentally omitted from previous records].

*Martha* with *M. cereoflava podolica* **subsp. n.** Poland, POLIŃSKI Ann. Zool. Mus. Polon. Hist. Nat. Warsaw **1** pp. 167–182.

*Metafruticicola* **gen. n.**, IHERING Zeits. Wiss. Zool. **54** 1892 pl. 452 [Omitted from previous records].

*Ochthephila* (*Tectula*) *bulverii* **mut. n.** *albescens, O.* (*Discula*) *attrita* **mut. n.** *nigra, O.* (*D.*) *a. contracta* **race. n.**, *O.* (*Callina*) *rotula* **mut. n.** *grisea* Madeira COCKERELL Nautilus **35** p. 45.—*O.* COCKERELL **121.**

†*Ochthephila* (*Callina*) *crassiuscula* **sp. n.** Pleistocene Madeira Isds., COCKERELL J. Conch. Leeds **16** p. 310.

*Omphalosagda* **gen. n.** SANDBERGER Land u. Süssw. Conch. Vorwelt **1875** p. 405 [Accidentally omitted from previous records].

*Oreohelix* with *O. strigosa canadica* **subsp. n.** Canadian Rockies, BERRY Mus. Bul. Ottawa **36** (Biol. ser. 8) pp. 4–6.

*Pachyphallus* **sec. n.** (*Helicidae*), KOBELT in Rossmässler's Icon. **23** p. 168.

*Papuina*, BOETTGER **65.**

†*Patula whitei* **nom. n.** for *Helix* (*P.*) *sepulta*, White, WENZ Nachrbl. D. Malak. Ges. **1919** p. 74.

*Planispira*, BOETTGER **65.**

*Plectopylis* (*P.*) *goniobathmos* **sp. n.** Burma, EHRMANN SitzBer. natf. Ges. **45–48** p. 10.

*Plectotropis subangulata* **sp. n.** Burma, EHRMANN SitzBer. natf. Ges. **45–48** p. 15.

†*Pleurodiscus* **subgen. n.** Genotype *Gonyodiscus* (*P.*) *balmei* (P. and Mich) Tertiary, WENZ Nachrbl. D. Malak. Ges. **1919** p. 78.

*Polygyra germana vancouverinsulae* **subsp. n.** Vancouver, PILSBRY & COOKE Nautilus **35** p. 38.—*P. multilineata algonquinensis*, BAKER **38.**—*P.*, BERRY **56.**

†*Polygyra* with *P. expansa, martini*, **spp. n.**, Miocene Oregon, HANNA Sci. Bul. Univ. Kansas **13** pp. 7–8.

*Punctum depressum, conicum*, **spp. n.**, Masatierra, ODHNER Nat. hist of Juan Fernandez **3** 2 p. 227 figs.—*P. pallidum* **sp. n.** Portuguese S.E. Africa, CONNOLLY Ann. Mag. Nat. Hist. **10** p. 119. —*P.*, BERRY **56.**

†*Pyramidula mascallensis* **sp. n.** Miocene Oregon, HANNA Sci. Bul. Univ. Kansas **13** p. 6.

*Rhododerma* **sec. n.** (*Helicidae*), KOBELT in Rossmässler's Icon. **23** p. 154.

*Sculptaria* with *S. damarensis* (H. Ad.) var. *minor, S. leschkei* **sp.** & **var. n.** S.W. Africa, DEGNER Beitr. Kennt. L. Süsswasserfauna D. S.W. Afrikas Hamburg **1922** pp. 4–8.

*Strobilops*, HANNA **281.**

*Sulcobasis*, BOETTGER **65.**

*Thiessea* **gen. n.**, KOBELT Rossmässler's Iconographie Land u. Süssw. Moll. N.F. **11** 1904 pp. 76, 187 [Accidentally omitted from previous records].

*Thysanophora* with *T. pilsbryi* **sp. n.** Mexico, BAKER Ann Arbor Mich. occ. pprs. mus. zool. No. **106** pp. 54–57.

*Trichia*, WATSON **635.**

*Trochoidea*, Brown, WATSON **635.**

*Trochula* Sch., WATSON **635.**

*Tyrrhenaria* **subgen. n.** (*Helicidae*), KOBELT in Rossmässler's Icon. **23** p. 121.

*Vallonia costellata*, HAAS **275.**

†*Vallonia pallaryi* **nom. n.** for *V. subpulchella*, Pallary, WENZ Nachrbl. D. Malak. Ges. **1919** p. 75.

*Vortex*, Oken, KENNARD & WOODWARD **332.**

*Wiegmannia* **gen. n.**, HESSE Nachr. Bl. D. malak. Ges. **48** 1916 p. 124 [Accidentally omitted from previous records].

ENDODONTIDÆ.

*Endodonta* (*Charopa*) *involuta, masafuerae,* (*Thaumatodon*) *occulta, skottsbergi,* **spp. n.**, Juan Fernandez, ODHNER Nat. hist. of Juan Fernandez **32** pp. 228, 229, 252 figs.

*Nesophila*, BOETTGER **65.**

*Trachycystis ambigua, sericea, mcdowelli, rudicostata, soror, pura, vengoensis,* **spp. n.**, Portuguese S.E. Africa, CONNOLLY Ann. Mag. Nat. Hist. **10** pp. 116–118.—*T.* with *T. junodi, shilwaneensis, subpinguis.* **spp. n.**, N. Transvaal, CONNOLLY Proc. Malac. Soc. **15** pp 73–74.

ORTHALICIDÆ, BULIMULIDÆ, CYLINDRELLIDÆ.

*Liguus*, SIMPSON **556.**

†*Lychnus*, with *L. vitrollensis, aragonensis, dalloni, vidali, giganteus,* **spp. n.**, Cretaceous France, REPELIN Mém. soc. géol. Paris **23** Mém. **53** pp. 5–24.

PUPIDÆ, STENOGYRIDÆ, HELICTERIDÆ.

*Achatina* with *A. pilsbryi*, Usambara; *A. retzii* Meru, **spp. n.**, D'AILLY Kgl Schwed. Ak. Wiss. Stockholm **1910** pp. 20–22.—*A.*, CONNOLLY **132.**—*A.*, DEGNER **172.**—*A.*, GERMAIN **238.**

*Achatinella multizonata*, COOKE **136.**

*Alopia* (*A.*) *julii* Siebenburgen; *A.* (*Herilla*) *pavlovici, trescavicensis, excedens pseudalopia, exornata, ziegleri ljubienicensis, illyrica plasensis, i. medoroides, dacica perfecta, accedens discreta, bosniensis gastron* Jugo-Slavia; *A.* (*Medora*) *almissana garganensis* Italy; *A.* (*M.*) *kutschigi cotorensis* Cattaro; *A.* (*M.*) *graciliformis prenjensis* Jugo-Slavia; *A.* (*Agathylla*) *regularis castellastuana* Cattaro., **spp. & subspp. n.**, KOBELT in Rossmaesslers Icon. **21** pp. 33, 38–51 & **22** pp. 1–14.—*A.* with *A. deaniana* **sp. n.** Roumania, COOKE J. Conch. Leeds **16** pp. 302–306.—*A.*, WAGNER **630.**

*Amastra irwiniana, spaldingi, davisiana,* **spp. n.**, Hawaiian Islands, COOKE Occ. pprs. Ber. P. Bishop Mus. Honolulu **3** pp. 213–215.—*A.* (*Laminella*) *kuhnsi* **sp. n.** Hawaiian Isds., COOKE Occ. pprs. Ber. P. Bishop Mus. Honolulu **3** p. 217.—[*A.* ?] *ricei* and var. *armillata* [*A.* ?] *juddii, thurstoni, gouveii, elephantina, modicella, umbilicata* var. *pluscula*; *Amastra remota, A. rugulosa* varr. *fastigata, annosa, A. flavescens* var. *emortua, A. whitei, conica* var. *gentilis, A. spicula, vinosa, fragosa, pogodula, sericea* var. *anaglypta, A. montivaga, paulula, praeopima, forbesi, hitchcocki, uniplicata* var. *vetuscula, A. mirabilis, flemingi*, **spp. & varr. n.**, Hawaiian Isds. COOKE Occ. Paprs. Ber. P. Bishop Mus. Honolulu **3** pp. 221–247.

*Aprosphyma* (*Polyptychophora*) *swinhoei demonstrata* **subsp. n.** Formosa, WAGNER Ann. zool. Mus. Polon. Hist. Nat. Warsaw **1** p. 104.

*Balea perversa*, ALKINS **4.**

*Buliminus* with *B.* (*Cerastus*) *théeli* **sp. n.** Meru and Kilimandjaro, D'AILLY Kgl. Schwed. Ak. Wiss. Stockholm **1910** p. 18.—*B.*, GERMAIN **237.**

†*Buliminus hassiacus* **nom. n.** for *Bulimus* (*Petreus*) *turgidulus*, Sandb., WENZ Nachrbl. D. Malak. Ges. **1919** p. 69.

*Caecilioides spencei* **sp. n.** Belgian Congo, DUPUIS Ann. Soc. roy. zool. Belgique **53** pp. 47–48.

*Clausilia* (*Cristataria*) *germaini* Pallary **sp. n.** Syria GERMAIN Moll. ter. fluv. Syrie Paris **1922** p. 122.—*C. bidentata*, ALKINS **4.**—*C.*, MARGIER **393.**

†*Clausilia manca* **nom. n.** for *C. wetzleri* Mill., WENZ Nachrbl. D. Malak. Ges. 1919 p. 71.

*Clausiliidae*, KOBELT **347.**—*C.*, WAGNER **631** & **632.**

†*Cochlicopa milleri* **nom. n.** for *C. exigua* Mill., WENZ Nachrbl. D. Malak. Ges. **1919** p. 71.

*Cochlodina*, PILSBRY **475.**

*Columella*, BERRY **56.**

*Curvella subgradata* **sp. n.** Meru D'AILLY Kgl. Schwed. Ak. Wiss. Stockholm **1910** p. 27.

*Edouardia junodi* **sp. n.** Portuguese S.E. Africa, CONNOLLY Ann. Mag. Nat. Hist. **10** p. 120.—*Edouardia* with *E. mcbeaniana* **subsp. n.** *lemaneensis* N. Transvaal, CONNOLLY Proc. Malac. Soc. **15** pp. 74–75.

*Ena* with *E.* (*Eburnea*) *serica, robusta, nitens,* **spp. n.,** S.W. Africa, DEGNER Beitr. Kennt. L. Susswasserfauna D. S.W. Afrikas Hamburg **1922** pp. 18–30.—*E. jugoslaviensis* **sp. n.** S.E. Europe, WAGNER Ann. zool. Mus. Polon. Hist. Nat. Warsaw **1** p. 118.

*Gastrocopta,* BOETTGER **65.**

†*Laminifera minutissima* **sp. n.** Miocene Germany, FISCHER Arch. Moll. Frankfurt **54** p. 103.

*Lauria,* CONNOLLY **132.**

†*Lauria austriaca* **sp. n.** Miocene, WENZ Senckenbergiana Frankfurt a. M. **3** p. 28.—*L. gottschicki* **sp. n.** Miocene Germany, WENZ Arch. Moll. Frankfurt **54** p. 107.—*L.* with *L. bourbonensis* Isd. of Bourbon; *L. vincta watsoniana, L. sphinctostoma heterodon* and *simulator* Madeira, **sp. & subspp. n.,** *Azoripupa* **sec n.** PILSBRY Man. Conch. [**27**] pp. 43–128.—*L.,* PILSBRY **481.**

*Leptachatinae,* COOKE **141** pp. 39–46.

*Leptinaria charlottei* **nom. n.** for *L. imperforata* F. Baker, BAKER Nautilus **35** p. 32.—*L. striosa,* GRENSTED **260.**

*Leucochiloides* with *L. minusculus* (Mouss.) **var. n.** *major* S.W. Africa, DEGNER Beitr. Kennt. L. Süsswasserfauna D. S.W. Afrikas Hamburg **1922** pp. 31–34.

†*Leucochylus edlaueri* **sp. n.** Miocene, WENZ Senckenbergiana, Frankfurt a. M. **3** p. 30.

*Leucostigma* **gen. n.** (*Clausiliidae*) WAGNER Nachr. Bl. D. Malak. Ges. Frankfurt a. M. **41** 1919 p. 145.

*Limicolaria,* GERMAIN **238.**—*L* [*imicolaria*], [ANON] **21.**

*Limicolariopsis* **gen. n.** with *L. sjöstedti* **sp. n.** Meru and Kilimandjaro, D'AILLY Kgl. Schwed. Ak. Wiss. Stockholm **1910** p. 24.

*Lyropupa truncata* **sp. n.** Hawaiian Isds., COOKE Occ. pprs. Ber. P. Bishop Mus. Honolulu **3** p. 211.

*Nenia belahubbardi, flachi tingamariae, bryantwalkeri,* **spp. & subsp. n.,** Peru, PILSBRY Nautilus **35** pp. 93–95.—*N.,* POLIŃSKI **485.**

*Neoserbica* **gen. n.** (*Clausiliidae*), WAGNER NachrBl. D. Malak. Ges. Frankfurt a. M. **41** 1919 p. 135.

*Nesopupa bandulana* **sp. n.** Portuguese S.E. Africa, CONNOLLY Ann. Mag. Nat. Hist. **10** p. 119.

*Opeas varicosum,* Meru, *O. tangaense* Usambara, **spp. n.,** D'AILLY Kgl. Schwed. Ak. Wiss. Stockholm **1910** pp. 27–28.—*O. vengoense, cressyi,* **spp. n.,** Portuguese E. Africa, CONNOLLY Ann. Mag. Nat. Hist. **10** p. 120.—*O.,* BOETTGER **65.**

*Orcula dolium tatrica* **subsp. n.** Hungary, WAGNER Ann. zool. Mus. Polon. Hist. Nat., Warsaw **1** p. 121.—*O.* with *O. scyphus palatilis* Kurdistan; *O. s. crassa* Upper Euphrates; *O. s. graecus* Euboea, **subspp. n.,** PILSBRY Man. Conch. [27] pp. 1–43.

†*Orcula,* PILSBRY **481** pp. 3–4.

*Pacificella* **gen. n.** (near *Tornatellina*), *variabilis* **sp. n.** Easter Island, ODHNER Nat. hist of Juan Fernandez **3** p. 249 figs.

*Partulina horneri* (Bald.) **var. n.** *kapuana* Hawaiian Isds., GOUVEIA Occ. pprs. Ber. P. Bishop Mus. Honolulu **7** p. 53.

*Peruinia,* POLIŃSKI **485.**

*Petriola alticola* **sp. n.** Kilimandjaro, D'AILLY Kgl. Schwed. Ak. Wiss. Stockholm **1910** p. 27.

*Protoherilla* **gen. n.** *Alopiinae* with *P. janickii, balaeiformis,* **spp. n.,** S.E. Europe, WAGNER Ann. zool. Mus. Polon. Hist. Nat. Warsaw **1** pp. 42–45.

*Pseudotrochus janssensi* **sp. n.** Belgian Congo, DUPUIS & PUTZEYS Ann. Soc. roy. zool. Belgique **53** pp. 42–45.

*Pupa* with *P. etrusca* **sp. n.** & **varr. n.** *major, minor, porcellata* W., *obesa* Settep. Italy, CAZIOT Ann. soc. linn. Lyon **65** p. 99.

*Pupilla fontana,* CONNOLLY **131.**

*Rachis* CONNOLLY **132.**

*Rachisellus,* GERMAIN **238.**

*Subulina sinistrorsa* **sp. n.** Belgian Congo, DUPUIS Ann. Soc. roy. zool. Belgique **53** pp. 47–48.—*S.,* DEGNER **172.**—*S.,* GERMAIN **238.**

*Tornatellina* with *T. plicosa, callosa, aperta,* **spp. n.,** Masatierra, ODHNER Nat. hist of Juan Fernandez **3** pp. 237–238 figs.

*Tornatellinidae,* COOKE **141** pp. 47–54.

*Vertigo,* BERRY **56.**—*V.,* MOROS **418.**

OLEACINIDÆ, TESTACELLIDÆ.

*Edentulina* with *E. montium* **sp. n.** Kilimandjaro, D'AILLY Kgl. Schwed. Ak. Wiss. Stockholm **1910** pp. 4–5.

*Ennea* (*Gulella*) *meruensis*, Meru; *E.* (*G.*) *coarctata*, Kilimandjaro, **spp. n.**, D'AILLY Kgl. Schwed. Ak. Wiss. Stockholm **1910** p. 6.—*E. iredalei*, Preston, CONNOLLY **131.**—*E.*, GERMAIN **238.**

*Gonaxis cressyi*, *G.* (*Eustreptaxis*) *vengoensis*, **spp. n.**, Portuguese S.E. Africa, CONNOLLY Ann. Mag. Nat. Hist. **10** pp. 113–114.

*Gulella enneadon, praelonga, tristãoensis*, **spp. n.**, Portuguese S.E. Africa, CONNOLLY Ann. Mag. Nat. Hist. **10** pp. 114-115.—*G.* with *G. bitzeensis* [Loc ?]; *G. cancellata* and var. *minor*, *G. candela* and var. *minor*, *G. pisa*, *impedita*, *calva*, *filix*, *disseminata* **subsp.** *kekumegaensis*, Kenya; *G.* (*Paucidentina*) *dupuisi*, Belgian Congo; *G.* (*Plicigulella*) *salutationis*, Tanganyika; *G.* (*P.*) *perlata*, Kenya; *G.* (*Molarella*) *gwendolinae* subsp. *scissidens*, Tanganyika, **spp., subspp. & varr. n.**, CONNOLLY Ann. Mag. Nat Hist. **10** pp. 491–501.—*G. with G. sibasana* **sp. n.** N. Transvaal, CONNOLLY Proc. Malac. Soc. **15** pp. 70–72.—*G.* (*Molarella*) **sec. n.**, CONNOLLY Ann. Mag. Nat. Hist. **10** pp. 500–501.

*Marconia*, CONNOLLY **131.**

*Orthogibbus*, Germain = *Gonospira*, Swains, DUPUIS Ann. Soc. roy. zool. Belgique **53** pp. 46–47.

*Ptychotrema fisheri*, Uganda; *P.* (*Parennea*) *cedrorum* Kenya, **spp. n.**, CONNOLLY Ann. Mag. Nat. Hist. **10** pp. 489–491.—*P.* (*Parennea*) *connollyi* **sp. n.** Belgian Congo, DUPUIS & PUTZEYS Ann. Soc. roy. zool. Belgique **53** pp. 40–42.

*Streptaxinae* **subfam. [n.]** *Testacellidae* BLANFORD & GODWIN-AUSTEN Fauna Brit. India Moll. *Testacellidae* & *Zonitidae* London **1908 p. 1.**

*Streptostele* with *S. signata*, Camerun; *S. urguessensis*, *fallooni*, *kenyana*, *oribates*, *elongata*, Kenya; *S. validior*, *sinuilabiata*, *elgonensis*, Uganda; *S. hasta*, *clavulus*, *crassicrenulata*, *patruelis nyiroensis*, *osculum*, *ordinaria*, *crassiplicata*, *columna*, Kenya; *S.* (*Raffraya*) *clara*, Camerun; *S.* (*R.*) *curvata*, Uganda; *S.* (*R.*) *auriformis*, Kenya; *S.* (*R.*) *cylindrica*, Uganda; *S.* (*R.*) *constricta*, Kenya; *S.* (*R.*) *unidentata*, N. Rhodesia; *S.* (*Graptostele*) *candelula*, Camerun; *S.* (*G.*) *iota*, *jod*, Kenya; *S.* (*Varicostele*) *curvicolumella*, Uganda, **spp. n.**, CONNOLLY Ann. Mag. Nat. Hist. **10** pp. 501-516.

*Tayloria* with *T. shimbiensis* **sp. n.** Kenya, CONNOLLY Ann. Mag. Nat. Hist. **10** pp. 486–487.

†*Testacella larteti tagica* **nom. n.** Tertiary, WENZ Senckenbergiana Frankfurt a. M. 4 p. 7.

SUCCINEIDÆ.

*Succinea* with *S. elegantior* **sp. n.** Manipur, ANNANDALE Rec. Ind. Mus. **22** pp. 592–602.—*S. texta*, *masafuerae*, **spp. n.**, Juan Fernandez, ODHNER Nat. hist. of Juan Fernandez **3** pp. 245, 253 figs.—*S. oblonga*, TAYLOR **390.**—*S.*, BERRY **56.**—*S.*, DEGNER **172.**

VERONICELLIDAE, ONCIDIIDÆ.

*Onchidium*, AREY & CROZIER **23.**—*O.*, HIRASAKA **290.**

*Vaginula roccatii* [**sp. n.**] Uganda, COLOSI Monitore zool. ital., **32** p. 125.—*V.* with *V. borelliana*, *robusta*, *festae*, *pulchra*, *propinqua*, *lugubris*, *americana*, *difficilis*, *erinacea*, *morii*, *absumpta*, *attenuata*, *laurentiana*, *esilicaulis*, **spp. n.**, S. America, COLOSI Ann. Mus. Hist. Nat. Buenos Aires **31** pp. 475–517.

## Scaphopoda.

†*Dentaliidae*, PILSBRY **473.** p. 399.

†*Dentalium augsananum* **sp. n.** Tertiary, MARTIN Samml. geol. Reichsmus. **1** p. 479.—*D. bocasensis*, *uscarianum*, **spp. n.**, Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 166.—*D.* (*Fustiaria*) *nipponicum* **sp. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 119.—*D.* (*Laevidentalium*) *morganianum* **sp. n.** Cretaceous N. Zealand, WILCKENS Pal. Bul. Geol. Surv. N.Z. **9** p. 24.

†*Plagioglypta prosseri* **sp. n.** Carbon U.S.A., MORNINGSTAR Geol. Surv. Ohio **25** p. 245.

†*Siphodentaliidae*, PILSBRY **473** p. 400.

## Pelecypoda or Lamellibranchia.

### General.

†*Lamellibranchia*, Gillet **247**.

### Protobranchia.

(Includes *Solenomyidae, Nuculidae, Ledidae, Ctenodontidae, Praecardiidae, Grammysiidae*, etc.)

†*Cardiomorpha beushauseni* **sp. n.** Devon Germany, Fuchs Abh. geol. Landesanst. **79** p. 58.

†*Ctenodonta decukmanni, biornata, tenuidens*, **spp. n.**, Devon, Germany, Spriestersbach Abh. geol. Landesanst. **80** pp. 43-47.—*C. eifeliensis*, **sp. n.** Devon Germany, Viëtor Jahrb. geol. Landesanst. **37** 2 p. 402.—*C. solenoides* **sp. n.** Devon Germany, Spriestersbach Jahrb. geol. Landesanst. **38** T. 1 p. 463. —*C.* (*Koenenia*) *obsoleta* **var. n.** *giengelsbergensis* Devon, Germany, Dahmer Jahrb. geol. Landesanst. **40** T.2 p. 247.

†*Cucullella circularis, semicircularis, decipiens* and var. *aequalis*, **spp.** & **var. n.** Devon Germany, Fuchs Abh. geol. Landesanst. **79** pp. 45–47.

†*Grammysia frontesulcata, subtilistria, cullmanni*, **spp. n.**, *G. abbreviata*, Sandb. **nom. mut.** *postera* Devon Germany, Spriestersbach Jahrb. geol. Landesanst. **38** T. 1 pp. 481–486.—*G. teres* **sp. n.** Devon Germany, Spriestersbach Abh. geol. Landesanst. **80** p. 78.

†*Leda davilae, quitanensis, ensinoides, dalliana*, **spp. n.**, Miocene Costa Rica, Olsson Bul. Amer. Pal. **39** pp. 173–175. —*L. ingens* **sp. n.** Quaternary Peru, Woods in Bosworth Geol. of Peru **1922** p. 61.—*L. prolongata* **sp. n.** Carbon, U.S.A., Morningstar Geol. Surv. Ohio **25** p. 206.—*L.* with *L. oxyrhynca* **sp. n.** Trias S. America, Jaworski N. Jahrb. Min. Stuttgart Beil. Bd. **47** pp. 113–115.—*L.*, Behrendsen **49** p. 173.

†*Ledidae*, Pilsbry **473** p. 402.

†*Nucula costaeimbricatus* **sp. n.** Eocene Nigeria, Newton Geol. Surv. Nigeria **3** p. 73.—*N. elongata* **sp. n.** Carbon U.S.A., Morningstar Geol. Surv. Ohio **25** p. 201.—*N. lieseri*, Spr. **var. n.** *similis* Devon Germany, Spriestersbach Abh. geol. Landesanst. **80** p. 40.—*N. nokonis, wenoensis*, **spp. n.**, Cretaceous U.S.A., Adkins Univ. Texas Bul. **1856** pp. 118–120.—*N. orbicella, cahuitensis* **sp. n.** Miocene Costa Rica, Olsson Bul. Amer. Pal. **39** p. 171.—*N.* with *N. rozieri* **sp. n.** Eocene, Cossmann Mém. soc. géol. Paris **23** & **24** Mém. **55** pp. 128–130.

†*Nuculana rhomboidea* **sp. n.** Tertiary Tasmania, May Papers and Proc. R. Soc. Tasmania **1921** p. 12.—*N. robustella, carinata*, **spp. n.**, Devon Germany, Spriestersbach Abh. geol. Landesanst. **80** pp. 41–42.—*N. securiformis*, Goldf. **var. n.** *directa* Devon Germany, Fuchs Abh. geol. Landesanst. **79** p. 47.

†*Nuculidae*, Pilsbry **473** p. 401.

†*Solenomya* ? ? *sharonensis* **sp. n.** Carbon U.S.A., Morningstar Geol. Surv. Ohio **25** p. 194.

†*Yoldia reagani* **nom. n.** for *Y. impressa* (Conrad) Reagan, Dall Amer. J. Sci. **4** p. 306.—*Y. prima* **sp. n.** Eocene, Cossmann Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 130.—*Y. bocasensis* [? **sp. n.**] Miocene Costa Rica, Olsson Bul. Amer. Pal. **39** p. 176.

### Filibranchia.

#### Anomiacea.

*Anomia ephippium*, Moltoni **413**.—*A.*, Winckworth **651**.

†*Anomia berryi* **sp. n.** Tertiary Peru Spieker Johns Hopkins Univ. Stud. Geol. **3** p. 127.—*A. lunula, sematana*, **spp. n.**, Pleistocene Japan, Yokoyama J. Coll. Sci. Tokyo **44** p. 177.—*A.* with *A. oligocaenica* **sp. n.** Eocene, Cossmann Mém. soc. geol., Paris **23** & **24** Mém. **55** pp. 215–216.—*A. talahabensis* **sp. n.**, Tertiary, Martin Samml. geol. Reichsmus **1** p. 481.—*A.* with *A.* (?) *koeneni* **sp. n.** Jura Argentina Act. Acad. Ci. Cordoba **7** pp. 177, 195.

†*Anomiidae*, Pilsbry **473** p. 409.

#### Arcacea.

†*Anadara nigeriensis* **sp. n.** Eocene Nigeria, Newton Geol. Surv. Nigeria **3** p. 70.

*Arca lithodomus*, Sow, Maury **400**.—*A.*, Maury **402**.—*A.*, Nordgård **434** p. 13.

†*Arca* (*Noetia*) *cholena*, *A.* (*Cunearca*) *zorritensis*, *A.* (*Scapharca*) *pantheonensis, zapotalensis, fissicosta, singewaldi*, *s.* var. *doma, vanholsti, charanensis, imporcata,*

*crescens, A.* (*Anadara*) *nelsoni, toroensis t.* var. *crassa, t.* var *prolata,* **spp.** & **varr. n.,** Tertiary Peru, SPIEKER Johns Hopkins Univ. Stud. Geol **3** pp. 95–125. —*A. mauryae, costaricensis, honensis, golfoyaquensis* Maury var. *medioamericana, A. veatchi, cacica, lloydi, hindsi,* **spp. n.,** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** pp. 182–193.—*A. washitaensis* **sp. n.** Cretaceous U.S.A., ADKINS Univ. Texas Bul. **1856** p. 121.—*A.,* BEHRENDSEN **49** p. 195.—*A.,* SHANNON **552** p. 249.—*A.* with *A.* (*Parallelepipedum*) *forojuliensis* **sp. n.** Oligocene Italy, LOMBARDINI Riv. Ital. Palaeont. **26** pp. 24–25.

†*Arcidae,* PILSBRY **473** p. 403.

†*Axinaea augsanana* **sp. n.** Tertiary, MARTIN Samml. geol. Reichsmus **1** p. 484.

*Barbatia* with *B.* (*Calloarca*) *tuamotana* **nom. n.** for *Byssoarca decussata,* Sow., MAURY Pal. Amer. Ithaca **1** pp. 173–175, 178.

†*Barbatia* with *B. lesbarritzensis, sacyi, cauderanensis, gaasensis, B.* (*Acar*) *rhombicula, B.* (*Obliquarca*) *perplanata,* **spp. n.,** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** pp. 141–147.

*Calloarca reeveana* **varr. n.** *velatiformis, lasperlensis* Panama Bay, MAURY Pal. Amer. Ithaca **1** p. 177.

†*Cucullaea subconcinna* **sp. n.** Lias Germany, SCHNITTMANN Zs. D. geol. Ges. Berlin **74** p. 21.—*C.,* BEHRENDSEN **49** p. 172.

†*Cucullaria orientalis* **sp. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 191.

†*Cyrtodonta kayseri,* Frech var. *elongata, C. rhenana, rhensensis* **var.** & **spp. n.,** Devon. Germany, VIËTOR Jahrb. geol. Landesanst. **37** 2 pp. 383–386.

†*Fossularca africana* **sp. n.** Eocene Nigeria, NEWTON Geol. Surv. Nigeria **3** p. 68.—*F.* with *F.* (*Galactella* ?) *castexi, F. tournoueri,* **spp. n.,** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** pp. 147–148.

†*Limopsis areolata, nipponica,* **spp. n.,** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** pp. 194–195.—*L.* with *L. boussaci* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** pp. 136–138.—*L. monilis* **sp. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 177.

†*Myophoria circumcincta,* **sp. n.** Devon Germany, FUCHS Abh. geol. Landesanst. **79** p. 49.—*M. frechi, aequis* **sp. n.** Devon. Germany, SPRIESTERSBACH Jahrb. geol. Landesanst. **38** T. 1 pp. 464–466.—*M. globula* **sp. n.** Devon Germany, SPRIESTERSBACH Abh. geol. Landesanst. **80** p. 51.—*M.* with *M. intermedia, gutta,* **spp. n.,** Devon. Germany, DAHMER Jahrb. geol. Landesanst. **37** T. 1 pp. 500–508.—*M.* with *M. paucicostata* **sp. n.** Trias S. America, JOWORSKI N. Jahrb. Min. Stuttgart Beil. Bd. **47** pp. 124–128.—*M. rhensensis* **sp. n.** Devon. Germany, VIËTOR Jahrb. geol. Landesanst. **37** 2 p. 407.

†*Neotrigonia bednalli* **sp. n.** Tertiary, CHAPMAN Proc. R. Soc. Vict. **35** p. 4.

*Noëtia* with *N. olssoni* **sp. n.** W. Coast of Panama, MAURY Pal. Amer. Ithaca **1** p. 171.

†*Nuculella,* with *N. taxandrica* **sp. n.** Oligocene Belgium, VINCENT Ann. Soc. roy. zool. malac. Bruxelles **52** pp. 104–113.

†*Nuculites* (*Cleidophorus*) *subovatus* **sp. n.** Devon. England, REED Geol. Mag. **59** p. 274.

†*Palaeonelo* [? *Palaeoneilo*], REED **506** p. 274.

†*Pectunculus blayaci, neuvillei,* **spp. n.,** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** pp. 131–135.—*P. yamakawai* **sp. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 190.

*Scapharca* with *S.* (*Argina*) *brevifrons* **var. n.** *bucaruana* W. Coast Panama, MAURY Pal. Amer. Ithaca **1** pp. 185–191.

†*Scapharca zorritosensis* **sp. n.** Miocene Peru, WOODS in BOSWORTH geol. of Peru **1922** p. 112.—*S.* (*Argina*) *sullanensis* **sp. n.** Tertiary Peru, WOODS in BOSWORTH Geol. of Peru **1922** p. 62.

*Scaphula* with *S. minuta* **sp. n.** Siam, GHOSH Proc. zool. Soc., London **1922** pp. 1139–1144.

†*Striarca africana* **sp. n.** Eocene Nigeria, NEWTON Geol. Surv. Nigeria **3** p. 69.

†*Trigonia pseudoexcentrica, crenulata,* Lam. var. *rectecostata* **sp. & var. n.** Vraconian Sinai, HOPPE Zs. D. Palästina —Ver. **1922** pp. 122–123.—*Trigonia* with *T. densestriata* Jura; *T. transatlantica, anguste-costata* Cretaceous, **spp. n.**, Argentina, BEHRENDSEN Act. Acad. Ci., Cordoba **7** pp. 172, 197, 207, 218, 220.—*T.*, GILLET **248**.—*T.*, HAYASAKA **284**.

MYTILACEA.

†*Arcoperna nigrescens* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 154.

†*Aviculopecten*, WEIGELT **638** p. 104.

†*Cayneyella*, WEIGELT **638** pp. 86 92 103.

†*Congeria neuvillei* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 158.

†*Crenella divaricata* **sp. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 175.

†*Eumicrotis*, WEIGELT **638** p. 98.

†*Gervilleia* [*vide etiam Gervillia*] (*Cultriopsis*) *elongata* **sp. n.** Trias Indo-China, MANSUY Mém. serv. géol. Indochine **6** p. 7.

†*Gervillia* [*vide etiam Gervilleia*] (?) *quadricostata* **sp. n.** Trias S. America, JAWORSKI N. Jahrb. Min. Stuttgart Beil Bd. **47** p. 108.—*G.*, BEHRENDSEN **49** p. 221.

†*Hoernesia curvata* **sp. n.** Trias Indo-China, MANSUY Mém. serv. géol. Indochine **7** p. 40.—*H.*, *inflata, angusta,* **spp. n.**, Trias Indo-China, MANSUY Mém. serv. géol. Indo-chine **6** p. 8.

†*Inoceramus lissoni* **sp. n.** Cretaceous BERRY AND STINGEWALD Johns Hopkins Univ. Stud. Geol. **2** p. 69.—*I.*, BEHRENDSEN **206** pp. 172 206.—*I.*, BÖHM **70**.

†*Leiopteria drevermanni* and var. *longialata* **var. & sp. n.** Devon Germany, SPRIESTERSBACH Abh. geol. Landesanst. **80** pp. 33–34.—*L. multiincisa, excitata, coartata,* **spp. n.**, Devon, Germany, FUCHS Abh. geol. Landesanst. **79** pp. 37–40.—*L.*, REED **506** p. 270.

†*Lithodomus* with *L.* (*Botula*) *lesbarritzensis* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** pp. 155–156.—*L.*, BEHRENDSEN **49** pp. 171 217.

†*Melina zealandica* (fossil pearls of) MARWICK **399**.

†*Modiola antiqua* Goldf. **var. n.** *arcuata* Devon Germany, VIËTOR Jahrb, geol. Landesanst. **37** 2 p. 391.—*M.* with *M. neuvillei, M.* (*Amygdalum*) *degrangei M.* (*Brachydontes*) *tenuilineata,* **spp. n.**, Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** pp. 150–152.—*M.* (*Septiola*) *nachamensis* **sp. n.** Trias Indo-China, MANSUY Mém. serv. géol. Indochine **6** p. 10.—*M.*, BEHRENDSEN **49** p. 207.

†*Modiolaria* with *M.* (*Semimodiola*) *gaasensis, M.* (*Planimodiola*) *oligocaenica,* **spp. n.**, Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** pp. 152–154.

†*Modiolopsis caobangensis* **sp. n.** Devon Indo-China, MANSUY Mém. serv. géol. Indochine **8** p. 19.—*M. prosinuata* **sp. n.** Palaeozoic Indo-China, MANSUY Mém. serv. géol. Indochine **5** p. 54.

†*Modiolus mooraboolensis* **sp. n.** Tertiary, CHAPMAN Proc. R. Soc. Vict. **35** p. 8.

†*Modiomorpha anulifera* **sp. n.** Devon Germany, SPRIESTERSBACH Abh. geol. Landesanst. **80** p. 37.—*M. bicallosa* **sp. n.** Devon Germany, FUCHS Abh. geol. Landesanst. **79** p. 44.—*M. subtrapezoidalis* **sp. n.** Devon Germany, SPRIESTERSBACH Jahrb. geol. Landesanst. **38** T. 1 p. 458.—*M. trigona* **sp. n.** Devon Germany, DAHMER Jahrb. geol. Landesanst. **40** T. 2 p. 241.—*M.*, REED **506** p. 273.

†*Myoconcha lamberti, icaunensis,* **spp. n.**, Cretaceous France, GILLET Bul. soc. sci. Yonne **75** p. 88.

†*Mytilidae*, PILSBRY **473** p. 414.

*Mytilus recurvus*, RAFINESQUE [? *Dreissensia*] **500** p. 54.—*M., edulis*, DANIEL **167**.—*M. e.*, MOSSOP **422**.—*M.*, HUNTSMAN **306a**.—*M.*, MARCHAND **392**.

†*Mytilus anarekensis* **sp. n.** Cretaceous Persia, FISCHER Beitr. Pal. geol. Ost. Ung. **27** p. 260.—*M.* with *M. pseudochorus* **sp. n.** Tertiary Argentina, DOELLO-JURADO An. Soc. Ci. Arg. Buenos Aires **94** pp. 86–90.—*M. euglyphus* **sp. n.** Tertiary Peru, WOODS in BOSWORTH Geol. of Peru **1922** p. 63.—*M.*, BEHRENDSEN **49** pp. 197 217.

†*Palaeolima*, WEIGELT **638** p. 95.

†*Perna arbolensis* **sp. n.** Tertiary Peru, WOODS in BOSWORTH Geol. of Peru **1922** p. 65.—*P. mana* **sp. n.** Jura Argentina, BEHRENDSEN Act. Acad. Ci. Cordoba **7** pp. 206 221.

†*Posidonia alberti magni* **sp. n.** Lias Germany, SCHNITTMANN Zs. D. geol. Ges. Berlin **74** p. 20.—*P. girtyi, vintonensis,* **spp. n.**, Carbon. U.S.A., MORNINGSTAR Geol. Surv. Ohio **25** p. 214–216.

†*Posidoniella orientalis* **sp. n.** Ouralo-Permian Indo-China, MANSUY Mém. serv. géol. Indochine **8** p. 58.—*P.*, WEIGELT **638** pp. 95 101.

†*Pseudo-Gervilleia* **sec. n.** *Gervilleia* with *P. episcopalis* **sp. n.** Cretaceous France, GILLET Bul. soc. sci. Yonne **75** p. 106.

†*Pteria entomotis* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 158.

†*Pteriidae*, PILSBRY **473** p. 408.

†*Rutotia*, WEIGELT **638** p. 103.

PECTINACEA.

†*Actinodesma* with *A.* (*Glyptodesma*) *suberectum* **sp. n.** Devon England, REED Geol. Mag. **59** pp. 270–272.

†*Aequipecten falki, brandesi,* **spp. n.**, Cretaceous, BÖHM Jahrb. geol. Landesanst. **40** T. 2 p. 158.

†*Amusium bocasensis* **sp. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 206.

*Avicula* (*Stempellia* **subg. n.**) *aequivalvis* **sp. n.** Masatierra, ODHNER Nat. hist. of Juan Fernandez **3** 2 p. 221 figs.

†*Avicula di-stefanoi* **nom. n.** for *A. gea*, JAWORSKI N. Jahrb. Min. Stuttgart Beil. Bd. **47** p. 104.—*A.* ? *endrissi* **sp. n.** Devon, HÜFFNER Jahrb. geol. Landesanst. **39** T. 1 p. 282.—*A. semiradiata* **sp. n.** Devon Germany, SPRIESTERSBACH Jahrb. geol. Landesanst. **38** T. 1 p. 456.—*A.* (*Oxytoma*) *raricosta* **sp. n.** Cretaceous Argentina, BONARELLI & NÁGERA Bol. **27** Min. Ag. Dir. Gen. Buenos Aires p. 26.—*A.*, WEIGELT **638** pp. 86 110.

†*Aviculopecten amoenus* **sp. n.** Devon Germany, FUCHS Abh. geol. Landesanst. **79** p. 41.—*A. tenuistriatus, A. radiatus,* Goldf. var. *nodocostata* **sp.** & **var. n.** Devon Germany, SPRIESTERSBACH Abh. Geol. Landesanst. **80** pp. 23 25.

†*Cassianella tenuistriata,* Münst. **mut. n.** *tonkinensis* Trias Indo-China, MANSUY Mém. serv. géol. Indochine **7** p. 32.

†*Chlamys augsanana, talahabensis,* **spp. n.**, Tertiary, MARTIN Samml. geol. Reichsmus **1** pp. 482–483.—*C.* with *C. fissicostulata* **sp. n.** *C.* (*Æquipecten*) *evoluens* **nom. mut.** *C.* (*Æ.*) *neuvillei* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** pp. 169–181.—*C. theresinae* **sp. n.** Tertiary Argentina, ROVERETO Bol. Soc. geol. Ital. **40** p. 27.

†*Conocardium tenuidorsatum* **sp. n.** Devon Germany, SPRIESTERSBACH Abh. geol. Landesanst. **80** p. 79.

†*Gosseletia flabellicosta* **sp. n.** Devon Germany, FUCHS Abh. geol. Landesanst. **79** p. 42.—*G. intermedia* **sp. n.** Devon Germany, VIËTOR Jahrb. geol. Landesanst. **37** 2 p. 381.

†*Hinnites mulderi* **sp. n.** Tertiary, CHAPMAN Proc. R. Soc. Vict. **35** p. 5.—*H.*, BEHRENDSEN **49** p. 176.—*H.*, PICQUENARD **469.**

†*Limoptera difida,* Sandb. **mut. n.** *obscura, L. semiradiata,* Frech **var. n.** *obsoleta* Devon Germany, SPRIESTERSBACH Abh. Geol. Landesanst. **80** pp. 26–27.—*L. rarofurcata* **sp. n.** Devon Germany, FUCHS Abh. geol. Landesanst. **79** p. 40.

†*Monotis aviculaeformis* **sp. n.** Trias Indo-China, MANSUY Mém. Serv. géol. Indochine **8** p. 33.

†*Myalina assimilis* **sp. n.** Devon Germany, FUCHS Abh. geol. Landesanst. **79** p. 43.—*M. bilsteinensis,* F. Rom. **var. n.** *sulcata, M. auriculata* **sp. n.** Devon Germany, SPRIESTERSBACH Abh. geol. Landesanst. **80** pp. 35–36.—*M. recurvirostris* **var. n.** *sinuosa* Carbon. U.S.A., MORNINGSTAR Geol. Surv. Ohio **25** p. 219.—*M.* (*Plethomytilus*) *securis, fallax,* **spp. n.**, Devon Germany, DAHMER Jahrb. geol. Landesanst. **40** T. 2 pp. 237–239.

†*Neithea*, BÖHM **71.**

*Pecten* (*Chlamys*) *felipponei* **sp. n.** Argentina, DALL Nautilus **35** p. 58.—*P.*, NORDGÅRD **434** p. 12.

†*Pecten* with *P. bodenbenderi* **sp. n.** Lias Argentina, BEHRENDSEN Act. Acad. Ci. Cordoba **7** pp. 173–176 195 196.—*P.* (?) *banoensis* **sp. n.** Jura Indo-China, MANSUY Mém. serv. géol.

Indochine **7** p. 44.—*P. macdonaldi, coralliphila, costaricensis, P.* (*Aequipecten*) *preglyptus, almirantensis, aotus,* **spp. n.**, Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** pp. 198–204.—*P. tenuicostulatus* **sp. n.** Pleistocene Japan YOKOYAMA J. Coll. Sci. Tokyo **44** p. 184.—*P. woodringi* **sp. n.** Tertiary Peru, SPIEKER Johns Hopkins Univ. Stud. Geol. **3** p. 125.—*P. groenlandicus*, REKSTAD **507.**—*P.*, ØYEN **456.**—*P.*, PICQUENARD **469.**

†*Pectinidae*, PILSBRY **473** p. 409.

†*Plicatula* with *P. neuvillei, boussaci, degrangei, sacyi,* **spp. n.**, Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** pp. 195–198.—*P. senilis* **sp. n.** Cenomanian Sinai, HOPPE Zs. D. Palästina-Ver. **1922** p. 119.—*P. youngi, dennanti, brevispina,* **spp. n.**, Tertiary, CHAPMAN Proc. R. Soc. Vict. **35** pp. 5–6.

†*Posidonomya steinmanni* **sp. n.** Jura Argentina, BEHRENDSEN Act. Acad. Ci. Cordoba **7** p. 205.—*P.*, WEIGELT **638.**

†*Pseudamussium tournoueri, P.* ? *menteathi,* **spp. n.**, Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 182.

†*Pseudomonotis*, BEHRENDSEN **49** p. 171.

†*Pteria* (*Meleagrina*) *crassicardia* **sp. n.** Tertiary, CHAPMAN Proc. R. Soc. Vict. **35** p. 2.

†*Pterinaea* [*vide etiam Pterinea*] *saepecostata, spriestersbachi, lorana, aequalicosta,* **spp. n.**, Devon, Germany, FUCHS Abh. geol. Landesanst. **79** pp. 32–37.

†*Pterinea* [*vide etiam Pterinaea*] *lineata* Goldf. **mut. n.** *irregularis, P. subtilicosta* **sp. n.** Devon Germany, SPRIESTERSBACH Abh. geol. Landesanst. **80** pp. 27 31.—*P.*, REED **506** p. 268.

†*Rhombopteria*, WEIGELT **638** p. 59.

†*Spondylidae*, PILSBRY **473** p. 413.

†*Spondylus baileyana* **sp. n.** Tertiary, CHAPMAN Proc. R. Soc. Vict. **35** p. 7.—*S. chiriquiensis* **sp. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 206.—*S.* with *S. O'Gormani* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** pp. 185–193.

†*Volsella* with *V. langportensis, wickesi* Lias England, RICHARDSON & TUTCHER Proc. Yorks. Geol. Soc. **19** pp. 53–56.

DIMYACEA.

†*Dimyacidae*, PILSBRY **453** p. 413.

EULAMELLIBRANCHIA.

OSTRAEACEA.

†*Alectryonia lehneriana* **sp. n.** Lias Germany, SCHNITTMANN Zs. D. geol. Ges. Berlin **74** p. 20.

†*Atrina mayeri* **nom. mut.** Eocene COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 165.

†*Crassostrea lugardi* **sp. n.** Eocene Nigeria, NEWTON Geol. Surv. Nigeria **3** p. 62.

†*Enostrea*, DOUVILLÉ **192.**

†*Exogyra*, BEHRENDSEN **49** pp. 198 218–219.

†*Gryphaea*, BEHRENDSEN **49** p. 177.—*G.*, TRUEMAN **602.**

*Heteranomia* **gen. n.** *Anomia*, WINCKWORTH Proc. Malac. Soc. **15** p. 33.

†*Lima* with *L.* (*Mantellum* ?) *lesbarritzensis* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** pp. 184–185.—*L. vulgatula* **sp. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 179.

†*Mimetostreon* **subgen. n.** (*Gryphaea*) Cretaceous Argentina, BONARELLI & NÁGERA Bol. **27** Min. Ag. Dir. Gen. Buenos Aires p. 21.

*Monia*, WINCKWORTH **651.**

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†*Ostrea costaricensis* **sp. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 196.—*O.* with *O. hypermeces, O.* (*Cubitostrea*) *horsarieurensis, sarcignanensis, O.* race *evanescens, O.* (*Ostreola*) *subdorsata,* **spp. n.**, Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** pp. 199–210.—*O. inca, buski,* **spp. n.**, Quaternary Peru, WOODS in BOSWORTH Geol. of Peru **1922** pp. 64–65.—*O.* with *O. moussonlensis* **sp. n.** Tertiary France, Spain, Algeria, Tunis, ASTRE Bul. soc. hist. nat. Toulouse **50** p. 161.—*O. njalindungensis, O.* (*Alectryonia*) *chlamydoides, longifolium,* **spp. n.**, Tertiary, MARTIN Samml. geol. Reichsmus **1** pp. 480–481.—*O. valentini* **sp. n.** Tertiary Argentina, ROVERETO Bol. Soc. geol. Ital. **40** p. 25.—*O.*, BEHRENDSEN **49** pp. 177 196 207.—*O.*, ØYEN **456.**—*O.*, TRUEMAN **602.**

†*Ostreidae*, PILSBRY **473** p. 409.

†*Pinna*, BEHRENDSEN **49** p. 217.—*P.*, WENZ **645**.

†*Pinnidae*, PILSBRY **473** p. 408.

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*Actinonaias* with *A.* (*Disconaias*) *walkeri* **sp. n.** Mexico, BAKER Ann Arbor Mich. occ. pprs. mus. zool. No. **105** pp. 17–24.

*Alasmidonta*, RAFINESQUE **500** p. 51. —*A.*, UTTERBACK **608** p. 270.

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*Amygdalonaias*, UTTERBACK **608** p. 345.

†*Anisocardia wassyensis* **sp. n.** Lower Cretaceous France, GILLET Bul. soc. géol. Paris **21** p. 16.

*Anodonta cellensis*, KRUG **352**.—*A.*, BAKER **42**.—*A.*, GRIER **267** p. 138.—*A.*, MODELL **412** pp. 164 175 182.—*A.*, PARAVINICI **458**.—*A.*, RAFINESQUE **500** p. 50.—*A.*, UTTERBACK **608** p. 262.

*Anodontites pittieri*, Venezuela; *colombiensis* U. S. Colombia, **spp. n.**, MARSHALL Proc. U.S. Nat. Mus. Washington **61** pp. 6–7.

*Anodontoides*, GRIER **267** p. 140.—*A.*, UTTERBACK **608** p. 268.

*Arcidens*, UTTERBACK **608** p. 253.

†*Astarte* with *A. aequilatera* **sp. n.** Jura Argentina, BEHRENDSEN Act. Acad. Ci. Cordoba **7** pp. 171 194 216.—*A. dumortieri* **sp. n.** Lias France, RICHE & ROMAN Trav. Lab. géol. Lyon **1** p. 123.—*A. incae* **sp. n.** Trias S. America JAWORSKI N. Jahrb. Min. Stuttgart Beil. Bd. **47** p. 128.

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*Calyptogena*, LAMY **357** p. 349.

†*Cardinia nachamensis*, *latitruncata*, **spp. n.** Lias, Indo-China, MANSUY Mém. serv. géol. Indochine **6** p. 17.

†*Cardita caribbeanensis*, *matima*, **spp. n.**, Miocene, Costa Rica, OLSSON Bul. Amer. Pal. **39** pp. 214–215.—*C. costaeirregularis*, *costaenodulosis*, *triparticostata*, **spp. n.**, Eocene, Nigeria, NEWTON Geol. Surv. Nigeria **3** pp. 81–83.—*C. huancavelicensis* **sp. n.** Cretaceous, BERRY & STINGEWALD Johns Hopkins Univ. Stud. Geol. **2** p. 81.—*C. proteiformis*, *C.* (*Glans*) *oligocaenica*, **spp. n.**, Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** pp. 119–120.—*C.*, BEHRENDSEN **49** pp. 198 222.

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†*Codokia* with *C.* (*Jagonia*) *valderadiata* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** pp. 105–106.

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†*Coralliophaga eocenica* **sp. n.** Eocene Nigeria, NEWTON Geol. Surv. Nigeria **3** p. 99.

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†*Crassatella* with *C. o'gormani*, *aliformis*, *C.* (*Crassinella*) *sacyi*, **spp. n.**, Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** pp. 115–118.

†*Crassatellidae* with *Crassatellites* (*Crassinella*) *guppyi radiata* **subsp. n.** Tertiary Santo Domingo, PILSBRY Proc. Acad. Nat. Sci. Philad. **73** p. 415.

†*Crassatellites bowdenensis* Dall var. *costaricensis*, *C. midiensis* **sp. & var. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 213.—*C. charanensis* **sp. n.** Miocene Peru, WOODS in BOSWORTH Geol. of Peru **1922** p, 112.—*C.* (*Scambula*) *berryi* **sp. n.** Tertiary Peru, SPIEKER Johns Hopkins Univ. Stud. Geol. **3** p. 131.

†*Crassatellopsis*, SPRIESTERSBACH **569**.

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†*Cumularia circularis* **gen. & sp. n.** Devon Germany SPRIESTERSBACH Jahrb. Geol. Landesanst. **38** T. 1 pp. 467–470.

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†*Cypricardella inflata* **sp. n.** Devon Germany, SPRIESTERSBACH Abh. geol. Landesanst. **80** p. 49.—*C. modiolaris* **sp. n.** Devon Germany, DAHMER Jahrb. geol. Landesanst. **40** T. 2 p. 252.—*C. nuculoides* **sp. n.** Lower Carbon Ireland, SMYTH Geol. Mag. London **59** p. 21.

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*Cyprogenia*, UTTERBACK **608** p. 321.

†*Cyrena cyrenoides* with *C. c.* **var. n.** *stefaninii* Oligocene Italy, LOMBARDINI Riv. Ital. Palaeont. **26** pp. 27–29.

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*Diplodon subcylindricus, subquadratus, arcuatus, trivialoides*, **spp. n.**, Uruguay, MARSHALL Proc. U. S. Nat. Mus. Washington **61** pp. 3–5.

†*Diplodonta collina, insula*, **spp. n.**, Miocene, Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 220.—*D. harrisi* **sp. n.** Tertiary, CHAPMAN Proc. R. Soc. Vict. **35** p. 8.—*D. pedelayensis, parilis*, **spp. n.**, Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** pp. 89–90.

†*Diplodontidae* with *Diplodonta dedecoris* **sp. n.** Tertiary Santo Domingo, PILSBRY Proc. Acad. Nat. Sci. Philad. **73** p. 418.

*Diplodontites* **gen. n.** Type *D. cookei* **sp. n.** U. S. Colombia, MARSHALL Proc. U. S. Nat. Mus. Washington **61** pp. 1–2.

†*Divaricella oppenheimi* **sp. n.** Eocene Nigeria, NEWTON Geol. Surv. Nigeria **3** p. 78.

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†*Lamellidens vredenburgi* **sp. n.** Cretaceous India, PRASHAD Rec. Geol. Surv. Ind. **51** p. 368.

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†*Loripes* (*Microloripes*) *canderanensis* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 107.

†*Lucina* with *L. argentina* **sp. n.** Jura Argentina, BEHRENDSEN Act. Acad. Ci. Cordoba **7** pp. 194–195.—*L. paytensis* **sp. n.** Tertiary Peru, WOODS in BOSWORTH Geol. of Peru **1922** p. 70.

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†*Lucinidae*, PILSBRY **473** p. 416.

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†*Lutetia peyroti* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 115.—*L.* with *L. texana* **sp. n.** Tertiary, HARRIS Pal. Amer. Ithaca **1** pp. 107–111.

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†*Montacuta japonica*, *oblongata*, M. ? *yamakawai*, **spp. n.**, Pleistocene, Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** pp. 157–158.

†*Montanaria*, SPRIESTERSBACH **569**.

†*Naiadites ohioense* **sp. n.** Carbon U.S.A., MORNINGSTAR Geol. Surv. Ohio **25** p. 221.

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†*Opis* (*Trigonopis*) *erebi* **sp. n.** Lias France, RICHE & ROMAN Trav. Lab. géol. Lyon **1** p. 130.

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†*Parreyssia latouchei* **sp. n.** Miocene Burma, VREDENBURG & PRASHAD Rec. geol. Surv. Ind. **51** p. 373.

†*Pedasiola rhenana* **gen.** & **sp. n.** Devon Germany, SPRIESTERSBACH Jahrb. geol. Landesanst. **38** T. 1 pp. 496–498.

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†*Pisidium ezquerrai*, *macphersoni*, **spp. n.**, Miocene, Spain, GOMÉZ Mem. Com. Inv. Pal. Madrid **30** pp. 154–155.

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†*Pleurophorus spinulosa* **sp. n.** Carbon U.S.A., MORNINGSTAR Geol. Surv. Ohio **25** p. 239.

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†*Protoschizodus brevifrons* **sp. n.** Lower Carbon Ireland, SMYTH Geol. Mag. London **59** p. 22.

†*Pteromeris* with *P. meridionalis, sacyi*, **spp. n.**, Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** pp. 124–126.

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†*Rhenania tumida, kryptodonta* **gen.** & **sp. n.** Devon Germany, FUCHS Abh. geol. Landesanst. **79** pp. 53–55.

†*Rochefortia degrangei* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 112.

*Rotundaria* UTTERBACK **608** p. 149.

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†*Abra gaasensis* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 35.

†*Arcopagia* with *A.* (*Sinuosipagia*) *rozieri* **sec.** & **sp. n.**; *A. boussaci* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** pp. 41–42.

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†*Donax* (*Paradonax*) *oligocaenica, sacyi* **sp.** & **var.** [?] **n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** pp. 45–46.

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†*Ervilia oligocaenica* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 34.

†*Gafrarium limonensis, altum* **var.** *costaricensis* **sp.** & **var. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** pp. 233–234.

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†*Macoma costaricana, panamensis,* Dall. var. *canalis* **sp.** & **var. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** pp. 256–257.

*Mactra stultorum,* VAN DER SLEEN **612.**

†*Mactra dunkeri, sachalinensis* Sch. var. *imperialis* **sp.** & **var. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** pp. 128–129.—*M. estrellana, sincola,* **spp. n.,** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** pp. 263–264.—*M.* (*Spisula*) *arnoldi* **nom. n.** for *Tivela crassatelloides* (Conrad) Reagan, DALL Amer. J. Sci. **4** p. 310.

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†*Mesodesma costaricensis* **sp. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 265.

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†*Mulinia lateralis,* Say **var. n.** *sauryensis* Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 265.—*M. olympica* **nom. n.** for *Mactra exoleta* (Gray) Reagan, DALL Amer. J. Sci. **4** p. 311.

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†*Semele laevis,* Sow. **var. n.** *costaricensis* Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 258.

†*Strigilla musanica* **sp. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 255.

†*Tellina alternata* Say var. *chibana, T. delta* **var.** & **sp. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** pp. 140–141.—*T. rovala, nasua, costaricana,* **spp. n.,** Miocene, Costa Rica, OLSSON Bul. Amer. Pal. **39** pp. 249–251.—*T.* with *T.* (*Moerella*) *rozieri, T.* (*Macaliopsis*) *peyroti,* **spp. n.,** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** pp. 36–40.—*T. zapotalensis, T.* (*Eurytellina*) *aequicincta, T.* (*Angulus* ?) *singewaldi,* **spp. n.,** Tertiary, Peru, SPIEKER Johns Hopkins Univ. Stud. Geol. **3** pp. 156–161.—*T.* (*Moerella*) *talahabensis, merangiana, ickeae, T.* (*Arcopagia*) *njalindungensis,* **spp. n.,** Tertiary, MARTIN Samml. geol. Reichsmus **1** pp. 490–491.

†*Tellinidae,* PILSBRY **473** p. 424.

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†*Antigona harrisiana* **sp. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 241.

*Callista* (*Meretrix*) *chione,* Lin. **var. n.** *navasai* Spain, CIRIA Bol. soc. Ib. Zaragoza **21** p. 163.

†*Callista* (*Macrocallista*) *dickersoni* **sp. n.** Clavilithes Series Peru WOODS in BOSWORTH Geol. of Peru **1922** p. 71.—*C. elongatotrigona, kitsoni,* **spp. n.,** Eocene, Nigeria, NEWTON Geol. Surv. Nigeria **3** pp. 88–89.—*C.* with *C. lesbarritzensis, C.* (*Chionella*) *tournoueri,* **spp. n.,** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** pp. 55–59.

†*Chione propinqua* **sp. n.** Tertiary Peru, SPIEKER Johns Hopkins Univ. Stud. Geol. **3** p. 152.—*C. rowleei, costaricensis, hotelensis, chiriquiensis,* **spp. n.,** Miocene, Costa Rica, OLSSON Bul. Amer. Pal. **39** pp. 244–248.—*C.* with *C.* (*Ventricoloidea*) *rhombica* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** pp. 47–49.

*Circe ickeae* **sp. n.** Tertiary, MARTIN Samml. geol. Reichsmus **1** p. 486.—*C.* (*Gouldia*) *neuvillei, semilamellosa, rozieri,* **spp. n.,** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** pp. 64–65.

†*Cyprimeria washitaensis* **sp. n.** Cretaceous U.S.A., ADKINS Univ. Texas Bul. **1856** p. 134.

*Cytherea virginea,* TOMLIN **599.**

†*Cytherea,* DOUVILLÉ **191.**

†*Ensiculus girondiensis* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 29.

†*Goniophora macrorhyncha* **sp. n.** Devon Germany, SPRIESTERSBACH Jahrb. geol. Landesanst. **38** T. 1 p. 471. —*G.* with *G. kilmoriensis* **sp. n.** Devon England, REED Geol. Mag. **59** pp. 305–307.—*G. westfalica* **sp. n.** Devon Germany, SPRIESTERSBACH Abh. geol. Landesanst. **80** p. 63.

†*Isodonta neotropica* **sp. n.** Trias S. America, JAWORSKI N. Jahrb. Min. Stuttgart Beil. Bd. **47** p. 137.

†*Macrocallista helenae* **sp. n.** Tertiary Peru, SPIEKER Johns Hopkins Univ. Stud. Geol. **3** p. 145.

†*Meretrix bosworthi, negritosensis,* **spp. n.,** Clavilithes Series, Peru, WOODS in BOSWORTH Geol. of Peru **1922** p. 72.—*M.* (*Lioconcha*) *ickeae* **sp. n.** Tertiary, MARTIN Samml. geol. Reichsmus **1** p. 485.—*M.* with *M.* (*Pitaria*) *antearata, M.* (*Tivelina*) *gaasensis, degrangei,* **spp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** pp. 60–62.

†*Miocardia* with *M. sarcignanensis* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** pp. 68–69.

†*Orthonota denckmanni, fallax,* **spp. n.,** Devon Germany, DAHMER Jahrb. geol. Landesanst. **40** T. 2 pp. 265–267.

†*Palaeosolen parvulus* **sp. n.** Devon Germany, SPRIESTERSBACH Jahrb. geol. Landesanst. **38** T. 1 p. 476.—*P. simplex* **var. n.** *rotundata* Devon Germany, VIËTOR Jahrb. geol. Landesanst. **37** 2 p. 414.

†*Petricola vasseuri* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 46.—*P.* (*Rupellaria*) *tenuissima* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 66.

†*Pitaria hillii,* Dall var. *musanica, vanwinkleae, boucaryensis* **var. & spp. n.,** Miocene, Costa Rica, OLSSON Bul. Amer. Pal. **39** pp. 237–239.—*P.* (*Lamelliconcha*) *cora* **var. n.** *aequicincta* Tertiary Peru, SPIEKER Johns Hopkins Univ. Stud. Geol. **3** p. 149.

†*Psammodonax patula* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 44.

†*Psammosolen gatunensis* **var. n.** *costaricensis* Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 260.

†*Psathura trapezoidalis* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 63.

†*Ptychomya koeneni* **sp. n.** Cretaceous Argentina, BEHRENDSEN Act. Acad. Ci. Cordoba **7** p. 216.

†*Sinodia heward-belli* **sp. n.** Eocene Nigeria, NEWTON Geol. Surv. Nigeria **3** p. 86.

*Sunetta tumidissima* **nom. n.** for *S. hians,* TOMLIN J. Conch. Leeds **16** p. 312.

†*Sunetta* (*Meroena*) *gaasensis* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 63.

†*Tapes talahabensis* **sp. n.** Tertiary, MARTIN Samml. geol. Reichsmus **1** p. 486.

†*Timoclea oligocaenica* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 52.

†*Thyasira trigonata* **sp. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 158.

†*Transennella herviderana* **sp. n.** Tertiary Peru, SPIEKER Johns Hopkins Univ. Stud. Geol. **3** p. 143.

†*Trapezium nipponicum, ventricosum,* **spp. n.,** Pleistocene, Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** pp. 167–168.

†*Veneridae,* PILSBRY **473** p. 424.

*Venus,* NORDGÅRD **434** p. 14.

†*Venus neastartoides* **sp. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 149.—*V.,* BEHRENDSEN **49** p. 222.

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†*Cardiidae,* PILSBRY **473** p. 420.

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†*Cardium costaricanum, heredium,* **spp. n.,** Miocene, Costa Rica, OLSSON Bul. Amer. Pal. **39** pp. 226–227.—*C. tokunagai* **sp. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 156.—*C. zaccagnai* **sp. n.** Cretaceous Tripoli, VINASSA DE REGNY Men. Descr. Carta geol. Ital. **18** p. 111.—*C.* (*Eucardium*) *talahabense, njalindungense,* **spp. n.,** Tertiary, MARTIN Samml. geol. Reichsmus **1** pp. 484–485.—*C.* (*Trachycardium*) *umbonatum, gibbulinum, C.* (*Plagiocardium*) *touzini, C.* (*Parvicardium*) *pedelayense,* **spp. n.,** Eocene, COSSMANN Mém. soc. géol.

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†*Lunulicardium caucasicum* **sp. n.** Silurian Russia, YANISHEVSKY Ann. Soc. Pal. Russie **2** p. 60.—*L.*, Shannon **552** p. 251.

†*Nemocardium doncieuxi* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 83.

†*Protocardia densilineata* **sp. n.** Vraconian Sinai, HOPPE Zs. D. Palästina-Ver. **1922** p. 128.

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†*Amphitriscoelus* **gen. n.** (*Rudistes*) with *A. waringi* **sp. n.** Cretaceous Trinidad, HARRIS & HODSON Pal. Amer. Ithaca **1** p. 130.

†*Barrettia* with *B. cf. multilirata* **varr. n.** *cylindrica, conica* Cretaceous Jamaica, TRECHMANN Geol. Mag. **59** pp. 510–512.

†*Caprina plumensis* **sp. n.** Cretaceous Trinidad, HARRIS & HODSON Pal. Amer. Ithaca **1** p. 134.

†*Chamidae*, PILSBRY **473** p. 416.

†*Durania manuelensis* **sp. n.** Upper Cretaceous Mexico, STEPHENSON Proc. U. S. Nat. Mus. Washington **61** p. 12.

†*Eoradiolites franchii* **sp. n.** Cretaceous Tripoli, PARONA Mem. Descr. Carta geol. Ital. **8** p. 13.

†*Ichthyosarcolites* with *I. tricarinatus* **sp. n.** Cretaceous Tripoli, PARONA Mem. Descr. Carta Geol. Ital. **8** pp. 9–13.

†*Kipia trinitaria* **gen.** & **sp. n.** (*Rudistes*) Cretaceous Trinidad, HARRIS & HODSON Pal. Amer. Ithaca **1** p. 133.

†*Praecaprina andersoni, P.* ? *pennyi,* **spp. n.,** Cretaceous, Trinidad, HARRIS & HODSON Pal. Amer. Ithaca **1** p. 135.

†*Radiolites* with *R. zuffardii* **sp. n.** Cretaceous Tripoli, PARONA Mem. Descr. Carta geol. Ital. **8** pp. 17–19.

†*Rudistes*, PARONA **461.**

†*Sauvagesia* with *S. belti, coloradensis,* **spp. n.,** Upper Cretaceous, Mexico, STEPHENSON Proc. U. S. Nat. Mus. Washington **61** pp. 9–11.—*S.* with *S. garianica* **sp. n.** Cretaceous Tripoli, PARONA Mem. Descr. Carta geol. Ital. **8** pp. 19–20.

†*Tampsia* **gen. n.** with *T. bishopi, chocoyensis,* **spp. n.,** Upper Cretaceous, Mexico, STEPHENSON Proc. U. S. Nat. Mus. Washington **61** pp. 4–8.

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†*Corbula* with *C. bodenbenderi, nana* **spp. n.,** Cretaceous, Argentina, BEHRENDSEN Act. Acad. Ci. Cordoba **7** pp. 213–214.—*C. frequens, pustulosa, sematensis, pygmaea, substriata,* **spp. n.,** Pleistocene, Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** pp. 123–125.—*C.* with *C. grateloupi, sarcignanensis,* **spp. n.,** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** pp. 20–27.—*C. orependula, orosi,* **spp. n.,** Miocene, Costa Rica, OLSSON Bul. Amer. Pal. **39** pp. 267–269.—*C. peruviana* **sp. n.** Peru, WOODS in BOSWORTH Geol. of Peru **1922** p. 73.—*C. wenoensis, basiniformis, littoralis* **spp. n.,** Cretaceous U.S.A., ADKINS Univ. Texas Bul. **1856** pp. 127–133.—*C.* (*Aloidis*) *prenuncia, C.* (*Cuneocorbula*) *fabiformis, propinqua, bravoana, acutirostra,* **spp. n.,** Tertiary, Peru, SPIEKER Johns Hopkins Univ. Stud. Geol. **3** pp. 172–176.—*C.* (*Bicorbula*) *tjiguhanensis, njalindungensis,* **spp. n.,** Tertiary, MARTIN Samml. geol. Reichsmus **1** pp. 487–488.—*C.* with *C.* (*Coestocorbula*) *gerardi, C. wemmelensis, C.* (*Agina*) *brabantina,* **spp. n.,** Tertiary, Belgium, VINCENT Ann. Soc. roy. zool. malac. Bruxelles **52** pp. 94–103.

†*Corbulidae* with *C. knoxiana fossilis* **subsp. n.** Tertiary Santo Domingo, PILSBRY Proc. Acad. Nat. Sci. Philad. **73** p. 427.

†*Cryptomya busoensis* **sp. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 126.

†*Cultellus tjiguhanensis* **sp. n.** Tertiary, MARTIN Samml. geol. Reichsmus **1** p. 487.

†*Gastrochaenidae*, PILSBRY **473** p. 428.

†*Glycimeris nigeriensis* **sp. n.** Eocene Nigeria, NEWTON Geol. Surv. Nigeria **3** p. 72.

*Lutraria*, NORDGÅRD **434** p. 15.

†*Lutraria neuvillei* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 34.

*Mya arenaria*, EDMONDSON **199.**—*M. a.*, MORSE **420.**—*M. crassa*, Makiyama **379.**

†*Mya*, ØYEN **456**.

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†*Psammobia kazusensis* **sp. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 136.—*P.* (*Amphipsammus*) *terranigrensis* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 43.—*P.* (*Gari*) *preangerensis* **sp. n.** Tertiary, MARTIN Samml. geol. Reichsmus 1 p. 486.

†*Sanguinolaria alonatta* **sp. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 260.

†*Sphenia ubiquiradians* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 19.

†*Solecurtus* (*Pharella*) *planifolliculus* **sp. n.** Tertiary Peru, SPIEKER Johns Hopkins Univ. Stud. Geol. **3** p. 163.

*Solen*, NORDGÅRD **434** p. 15.

†*Solen neuvillei* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 30.

†*Solenidae*, PILSBRY **473** p. 426.

†*Solenocurtus* (*Azor*) *bellardii* Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 31.

†*Tagelus cebus* **sp. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 261.

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*Bankia* with *B.* (*Nausitora*) *excolpa* N. Pacific; *braziliensis* S. Atlantic, **spp. n.**, BARTSCH Bul. U. S. Nat. Mus. Washington **61** pp. 7–16.

†*Cercomya angustissima* **sp. n.** Jura Argentina, BEHRENDSEN Act. Acad. Ci. Cordoba **7** p. 193.

†*Homomya* with *H. bodenbenderi* **sp. n.** Lias Argentina, BEHRENDSEN Act. Acad. Ci. Cordoba **7** pp. 170–171.

†*Jouannetia kamakurensis* **sp. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 120.—*J. neuvillei* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 14.

†*Pholadidae*, PILSBRY **473** p. 428.

†*Protocardia costaricensis* **sp. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 229.

†*Teredina doncieuxi* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 14.

†*Teredinidae*, PILSBRY **473** p. 428.

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†*Allerisma intermedium* **sp. n.** Devon Germany, DAHMER Jahrb. geol. Landesanst. **40** T. 2 p. 273.—*A. macrorhynchum*, *westfalicum*, **spp. n.**, Devon, Germany, SPRIESTERSBACH Jahrb. geol. Landesanst. **38** T. 1 pp. 437–438.

†*Edmondia*, SHANNON **552** p. 251.

†*Goniomya*, BEHRENDSEN **49** p. 169.

†*Leptodomus arcuatus* **sp. n.** Devon Germany, SPRIESTERSBACH Jahrb. geol. Landesanst. **38** T. 1 p. 493.—*L. depressus* **sp. n.** Devon Indo-China, MANSUY Mém. serv. géol. Indochine **8** p. 21.—*L. dolichopterus* **sp. n.** Devon Germany, FUCHS Abh. geol. Landesanst. **79** p. 59.

†*Pandoridae*, PILSBRY **473** p. 414.

†*Pholadomya ellipticaformis* **sp. n.** Cretaceous, BERRY & STINGEWALD Johns Hopkins Univ. Stud. geol. **2** p. 77.—*P. o'gormani* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 16.—*P.*, BEHRENDSEN **49** pp. 170 207.

†*Pleuromya subdonacina* **sp. n.** Persia, FISCHER Beitr. Pal. Geol. Ost. Ung. **27** p. 216.—*P.* with *P. gottschei* **sp. n.** Jura Argentina, BEHRENDSEN Act. Acad. Ci. Cordoba **7** pp. 169 180 206.—*P.* with *P. tatei* **nom. n.** for *Myacites musculoides*, RICHARDSON & TUTCHER Proc. Yorks. Geol. Soc. **19** pp. 51–52.

†*Thracia aequilatera* **sp. n.** Cretaceous Argentina, BEHRENDSEN Act. Acad. Ci. Cordoba **7** p. 215.—*T. flandrica* **sp. n.** Eocene France, DUBOIS Ann. soc. geol. Lille **45** p. 70.—*T. transmontana*, *sematana*, **spp. n.**, Pleistocene, Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** pp. 172–173.—*T. tristani* **sp. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** p. 211.

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†*Cuspidaria ligula* **sp. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 169.

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†*Entodesma naviculoides* **sp. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 170.

†*Poromya flexuosa* **sp. n.** Pleistocene Japan, YOKOYAMA J. Coll. Sci. Tokyo **44** p. 173.

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†*Anodontophora tonkinensis, trapezoidalis, myophorioides, minima,* **spp. n.**, Trias Indo-China, MANSUY Mém. serv. géol. Indochine **6** pp. 12–13.—*A.* (*Anoplophora*) *convexa* **sp. n.** Trias Indo-China, MANSUY Mém. serv. géol. Indochine **7** p. 39.

†*Anthraconeilo bownockeri* **sp. n.** Carbon U.S.A., MORNINGSTAR Geol. Surv. Ohio **25** p. 208.

†*Carydium angulatum* **sp. n.** Devon Germany, DAHMER Jahrb. geol. Landesanst. **40** T. 2 p. 257.—*C. concentricum* **sp. n.** Devon Germany, SPRIESTERSBACH Abh. geol. Landesanst. **80** p. 62.

†*Cypricardinia mediorhena* var. *simplicistria* **sp.** & **var. n.** Devon Germany, FUCHS Abh. geol. Landesanst. **79** p. 57. —*C. prisca* **sp. n.** Ordovician Indo-China, MANSUY Mém. serv. géol. Indochine **7** p. 8.

†*Dechenia hercynica* **sp. n.** Devon Germany, DAHMER Jahrb. geol. Landesanst. **40** T. 2 p. 271.—*D. rhenana, follmanni, westfalica* and var. *curta* **gen. spp.** & **var. n.** Devon Germany, SPRIESTERSBACH Abh. geol. Landesanst. **80** pp. 70–75.

†*Elymella ovata, globula,* **spp. n.**, Devon Germany, SPRIESTERSBACH Jahrb. geol. Landesanst. **38** T. 1 pp. 490–492.

†*Eomegalodus fuchsi* **gen.** & **sp. n.** Devon Germany, SPRIESTERSBACH Abh. geol. Landesanst. **80** pp. 53–55.

†*Glossites imminutus, pseudolaevis, planus, directus,* **spp. n.**, Devon Germany, SPRIESTERSBACH Jahrb. geol. Landesanst. **38** T. 1 pp. 477–480.

†*Ledopsis elegans* **sp. n.** Devon Germany, DAHMER Jahrb. geol. Landesanst. **37** T. 1 p. 498.

† ? *Mecynodus giganteus* **sp. n.** Devon Germany, SPRIESTERSBACH Abh. geol. Landesanst. **80** p. 58.

†*Montanaria lata* **sp. n.** Devon Germany, DAHMER Jahrb. geol. Landes. anst. **40** T. 2 p. 258.

†*Pedasiola hercynica* **sp. n.** Devon Germany, DAHMER Jahrb. geol. Landesanst. **40** T. 2 p. 227.

†*Phaenodesmia peruana* **sp. n.** Trias S. America, JAWORSKI N. Jahrb. Min. Stuttgart Beil. Bd. **47** p. 116.

†*Radiatodonta goslariensis* **gen.** & **sp. n.** Devon Germany, DAHMER Jahrb. geol. Landesanst. **40** T. 2 p. 245.

†*Regina bockbergensis* **sp. n.** Devon Germany, DAHMER Jahrb. geol. Landesanst. **40** T. 2 p. 274.

†*Solenomorpha lamborni* **sp. n.** Carbon. U.S.A., MORNINGSTAR Geol. Surv. Ohio **25** p. 195.

†*Sphenotus carinatus, elongatus, spatulus,* **spp. n.**, Devon, Germany, SPRIESTERSBACH Abh. geol. Landesanst. **80** pp. 67–69.—*S. gracilis, compactus,* **spp. n.**, Devon Germany, DAHMER Jahrb. geol. Landesanst. **40** T. 2 pp. 261–263.—*S. rhenanus* **sp. n.** Devon Germany, SPRIESTERSBACH Jahrb. geol. Landesanst. **38** T. 1 p. 472.—*S. vanlinhensis* **sp. n.** Palaeozoic Indo-China, MANSUY Mém. serv. géol. Indochine **5** p. 56.

†*Stablia persica* **gen.** & **sp. n.** Persia, FISCHER Beitr. Pal. Geol. Ost. Ung. **27** p. 219.

†*Tellinopsis devonica* **sp. n.** Devon England, REED Geol. Mag. **59** p. 303.

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†*Abbasites abbas* **sp. n.** Aalenian, BUCKMAN Type Amm. pt. **28** pl. ccxxxvi.

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†*Acanthoceras worthense* **sp. n.** Cretaceous U.S.A., ADKINS Univ. Texas Bul. **1856** p. 93.

†*Acrocanites* with *A. multilobatus* **gen. & sp. n.** Carbon. Germany, SCHWINDEWOLF Senckenbergiana Frankfurt a. M. **4** p. 15.

†*Actinoceras*, REUDEMANN **513A.**—*A.*, SHANNON **552.**

†*Adrianites marathonensis* **sp. n.** Permo-carbon, Texas, BÖSE Bull. Univ. Texas **1762** p. 123.

†*Ægoceras*, CRICK **155** p. 273.

†*Ætomoceras* with *Æ. pseudostriaries* **sp. n.** Lias, SPATH Geol. Mag. **59** p. 173.

†*Agathiceras frechi, girtyi*, **spp. n.**, Permo-carbon. Texas, BÖSE Bul. Univ. Texas **1762** pp. 114–121.

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*Alloteuthis*, NAEF **427** Bd. I pls. xiv xvii xix.

†*Alsatites*, TRUEMAN **603** p. 280.

†*Amaltheus* with *A.* (?) *attenuatus* **sp. n.** Cretaceous Argentina, BEHRENDSEN Act. Acad. Ci. Cordoba **7** pp. 166 212.—*A.*, CRICK **155** p. 284.

†*Ambersites ægrotus* **sp. n.** Aalenian, BUCKMAN Type Amm. pt. **28** pl. ccxxxvii.

†*Amblyoxyites amblys* **sp. n.**, BUCKMAN Type Amm. pt. **33** pl. cccliii.

†*Ammonites*, BEHRENDSEN **49** pp. 167 196.—*A.*, CRICK **155.**

†*Ammonoidea*, WOODWARD **656.**

†*Anaplanulites difficilis* **sp. n.**, BUCKMAN Type Amm. pt. **35** pl. cccxxix.

†*Anatomites* with *A. sommeranensis, mojsisovicsi, haasii, leiostracus, imeldae, folgneri, stolleyi, jaworskii*, **spp. n.**, Trias Austria, DIENER Denkschr. Ak. Wiss. Wien **97** pp. 478–486.

*Ancistroteuthis*, NAEF **427** Bd. I pls. xii xv xvii.

†*Ancycloceras bendirei* **sp. n.** Cretaceous U.S.A., ADKINS Univ. Texas Bul. **1856** p. 70.—*A.*, BLONDET **64** p. 151.

†*Anisoceras*, SPATH **562** p. 151.

†*Anolcites alogomandrae* **sp. n.** Trias, RENZ Verh. Natf. Ges. **33** p. 253.—*A. dieneri* **sp. n.** Trias S. America, JAWORSKI N. Jahrb. Min. Stuttgart Beil. Bd. **47** p. 166.

†*Aphyllites* (*Agoniatites*) *falcistria* **sp. n.** Devon Germany, FUCHS Abh. geol. Landesanst. **79** p. 74.

†*Apoderoceras lobulatum* **sp. n.** Raasayan, BUCKMAN Type Amm. pt. **28** pl. ccxxxv.

†*Aptychus mirabilis* **sp. n.** Lias Italy, FUCINI Pal. ital. Pisa **25** p. 191.—*A.*, BEHRENDSEN **49** p. 192.—*A.* STEUER 580 p. 108.

†*Arcestes* with *A. pinacostomus, spengleri, trauthi, piae, geyeri, rotkyi, tietzei, xaverii, regalis, gattnari, schafferi, frechi*, **spp. n.**, Trias Austria, DIENER Denkschr. Ak. Wis. Wien **97** pp. 342–359.

*Architeuthina* **fam. n.**, GRIMPE Sitz. Ber. natf. Ges. **45–48** p. 48.

*Architeuthis harveyi*, RITCHIE **519.**

*Argonauta*, NAEF **427** Bd. I pls. x xi xvi xviii; Bd. ii pls. xxxii xxxvii.

†*Arietites*, BEHRENDSEN **49** p. 166.—*A.*, CRICK **155.**

†*Arnioceras*, SPATH **563.**—*A.*, TRUEMAN **603** p. 282.

†*Arnioceratoides* **gen. n.**, SPATH Geol. Mag. **59** p. 176.

†*Arniotites*, CLAUS **120.**

†*Aspidoceras bodenbenderi* **sp. n.** Jura Argentina, BEHRENDSEN Act. Acad. Ci. Cordoba **7** p. 208.—*A.* with *A. enomphalum, andinum, cieneguitense*, **spp. n.**, Jura Argentina, STEUER Act. Acad. Ci. Cordoba **7** pp. 98–102.

†*Ataxioceratidae* **fam. n.**, BUCKMAN Buckman's Type Amm. pt. **25** p. 31.

†*Austiniceras* **gen. n.**, SPATH Trans. R. Soc. S. Af. **10** p. 127.

*Bathothaumatidae* **fam. n.**, GRIMPE SitzBer. natf. Ges. **45–48** p. 51.

*Bathyteuthinae* **subfam. n.**, GRIMPE SitzBer. natf. Ges. **45–48** p. 45.

†*Behemoth megasthenes* **sp. n.**, BUCKMAN Type Amm. pt. **33** pl. cccv A and pt. **34** pl. cccv A*; *B. lapidens* **sp. n.** BUCKMAN op. cit. pt. **36** pls. cccxlii A B.

†*Belemnites canaliculatus*, LISSAJOUS **371**.—*B.*, BEHRENDSEN **49** p. 168.—*B.*, MORAND **416**.

†*Berriasella calisto* **var. n.** Cretaceous Italy, RODIGHIERO Pal. Ital. Pisa **25** p. 104.

†*Beudanticeras* with *B. beudanti* **var. n.** *exhornata* Cretaceous Argentina, BONARELLI & NÁGERA Bol. **27** Min. Ag. Dir. Gen. Buenos Aires p. 22.

†*Bigotites* **nom. n.** for *Bigotella*, NICOLESCO, Compte-Rendu soc. géol., France Paris **1918** p. 36.—*B.* NICOLESCO **432**.

†*Boloteuthis*, CRICK **155** p. 288.

†*Brancoceras* **gen. n.** with *B. binodosum* **sp. n.** Cretaceous, STIELER N. Jahrb. Min. **2** pp. 37–39.

†*Briareites polymeles* **sp. n.** Portlandian, BUCKMAN Type Amm. pt. **29** pl. cclvii A and pt. **30** pls. cclvii B C.

†*Bullatimorphites bullatimorphus* **gen. & sp. n.**, BUCKMAN Type Amm. pt. **28** pp. 42 47.

†*Cadomoceras cossmanni* **sp. n.** Jura France, GROSSOUVRE Bul. soc. géol. Paris **21** p. 308.

*Calliteuthis atlantica* **sp. n.**, GRIMPE SitzBer. natf. Ges. **45–48** p. 47.—*C.* NAEF **427** Bd. i pls. iii xix; Bd. ii pl. viii.

†*Canadoceras* **gen. n.**, SPATH Trans. R. Soc. S. Af. **10** p. 125.

†*Cardioceras cordatum* SOW **var. n.** *baltica* Jura Germany, KEGEL Jahrb. geol. Landesanst. **37** T. 1 p. 200.

†*Catacephalites durus* **sp. n.** Macrocephalitan, BUCKMAN Type Amm. pt. **32** pl. cclxxxiii.

†*Caumontisphinctes aplous, nodatus* **spp. n.**, Bajocian, BUCKMAN Type Amm. pt. 28 pls. ccxli & ccxlii.

†*Celtites* with *C. laevissimus, othiliae, wittenburgi* **spp. n.**, Trias Austria, DIENER Denkschr. Ak. Wiss. Wien **97** pp. 511–513.

†*Ceratites riedeli* **sp. n.** Trias Germany, STOLLEY Jahrb. geol. Landesanst. **37** T. 1 p. 135.—*C. samnenaensis* **sp. n.** Trias Indo-China, MANSUY Mém. serv. géol. Indochine **7** p. 33.—*C.* with *C. sequens, flexuosus* var. *crassa, primitivus, discus, pulcher, laevis, robustus* and varr. *horrida, rarinodosa, C. philippii* and var. *rotunda, C. raricostatus, compressus* var. *crassior, evolutus* var. *tenuis, C. similis, bivolutus, hercynus, praecursor, praespinosus, postspinosus, thuringiacus, toulouensis*, **spp. & varr. n.** Trias Germany, RIEDEL Jahrb. geol. Landesanst. **37** T. 1 pp. 20–66.—*C.*, SCHLAGINTWEIT **538**.

†*Cerericeras cereale* **sp. n.** Macrocephalitan, BUCKMAN Type Amm. pt. **32** pl. cclxxxvi.

*Chaunoteuthis mollis*, GRIMPE **269**.

*Chiroteuthina* **fam. n.**, GRIMPE SitzBer. natf. Ges. **45–48** p. 49.

*Chiroteuthis*, NAEF **427** Bd. I pls. iv xv xvii.

†*Chondroceras grandiforme* **sp. n.** BUCKMAN Type Amm. pt. **37** pl. ccclvii.

†*Cladiscites* with *C. tuvalicus* **sp. n.** Trias Austria, DIENER Denkschr. Ak. Wiss. Wien **97** pp. 365–370.

†*Cleoniceras argentinum* **sp. n.** Cretaceous Argentina, BONARELLI & NÁGERA Bol. **27** Min. Ag. Dir. Gen. Buenos Aires p. 24.

†*Coeloceras reynesi* **sp. n.** Lias France, RICHE & ROMAN Trav. Lab. géol. Lyon **1** p. 82.

†*Coroceras*, DIENER **179**.

†*Costidiscus*, GIGNOUX **244**.

*Cranchinia* **fam. n.**, GRIMPE SitzBer. natf. Ges. **45–48** p. 50.

†*Crassiplanulites* **gen. n.** with *C. crassicosta, crassiruga, lahuseni*, **spp. n.**, BUCKMAN Type Amm. pt. **27** pp. 41–42.

*Ctenopteryginae* **subfam. n.**, GRIMPE SitzBer. natf. Ges. **45–48** p. 45.

*Ctenopteryx*, NAEF **427** Bd. i pl. iii.

†*Cycloceltites* with *C. oberonis* **sp. n.** Trias Austria, DIENER Denkschr. Ak. Wiss. Wien **97** p. 514.

†*Cyrtoceras*, REUDEMANN **513a**.

†*Dalmasiceras* **subgen. n.** *Hoplites* with *H.* (*D.*) *spiticeroides, subspiticeroides, punctatum, kiliani, crassicostatum,* **spp. n.,** Upper Juraassic, DJANÉLIDZÉ Trav. Lab. géol. Grenoble **12** pp. 334–352.

†*Daraelites texanus* **sp. n.** Permo-Carbon. Texas, BÖSE Bul. Univ. Texas **1762** p. 52.

†*Desmoceras,* CHAPUT **114.**—*D.,* SPATH **562.**

†*Didymites,* DIENER **180.**

†*Dimorphites* with *D. montis ignei* **sp. n.** Trias Austria, DIENER Denkschr. Ak. Wiss. Wien **97** p. 487.

†*Discophyllites,* DIENER **179** p. 381.

†*Discotropites,* DIENER **180.**

†*Docidoceras planulatum* **sp. n.** Bojocian, BUCKMAN Type Amm. pt. **30** pl. cclxiv; *D. biforme* **sp. n.** Sonninian, BUCKMAN *op. cit.* pt. **31** pl. cclxxvi; *D. perfectum* **sp. n.** Sonninian, BUCKMAN *op. cit.* pt. **34** pt. cccxiv.

*Eledone moschata,* CRAIFALEANU **152.** *E.,* NAEF **427** Bd. I pls. x xvi xviii.

*Eledoninae* **nom. n.** *Octopodidae,* GRIMPE Zool. Anz. **52** p. 297.

†*Elobiceras* with *E. szajnochai, subelobiense, flexicostatum, angustum, intermedium, densicostatum, lobitoense, arietiforme,* **spp. n.,** Cretaceous Angola, SPATH Trans. R. Soc. Edinburgh **53** pp. 132–139.

*Enoploteuthina* **fam. n.,** GRIMPE SitzBer. natf. Ges. **45–48** p. 45.

†*Epammonites* **gen. n.** for *Arietites latisulcatus,* Quens., SPATH Geol. Mag. **59** p. 173.

†*Erycites sphaeroconicus* **sp. n.** Ludwigian, BUCKMAN Type Amm. pt. **33** pl. cccxv.

†*Enaptetoceras enaptetum* **sp. n.,** BUCKMAN Type Amm. pt. **33** pl. ccxcxi.

†*Eupachydiscus* **gen. n.,** SPATH Trans. R. Soc. S. Af. **10** p. 124.

*Eusepiola* **sec. n.** *Sepiola,* GRIMPE SitzBer. natf. Ges. **45–48** p. 42.

†*Flickia boesei, F.* (?) *bosquensis,* **spp. n.,** Cretaceous U.S.A., ADKINS Univ. Texas Bul. **1856** pp. 85–87.

†*Frechiella kammerkarensis,* Stol. **var. n.** *helvetica* Lias Switzerland, RENZ Ec. Geol. Helvet. **17** p. 158.

†*Frogdenites spiniger* **sp. n.** Bojocian, BUCKMAN Type Amm. pt. **26** pl. ccxv.

†*Galbanites galbanus* **sp. n.,** BUCKMAN Type Amm. pt. **37** pl. ccclv A.

†*Galilaeanus crucifer* **sp. n.,** BUCKMAN Type Amm. pt. **32** pl. ccxciii.

†*Galilaeiceras trichophorum* **sp. n.** Proplanulitan, BUCKMAN Type Amm. pt. **32** pl. ccxci.

†*Galilaeites curtilobus* **sp. n.,** BUCKMAN Type Amm. pt. **32** pl. ccxciv; *G. indigestus* **sp. n.,** BUCKMAN *op. cit.* pt. **33** pl. cccix.

†*Gastrioceras gerkeni* **sp. n.** Carbon Russia, FREDERICKS Ann. Soc. Pal. Russia **3** p. 84.—*G. modestum, roadense, altudense,* **spp. n.,** Permo-Carbon. Texas, BÖSE Bul. Univ. Texas **1762** pp. 83–90.

†*Gaudryceras* with *G. numidum,* Coq. (Sayn) **var.** [? **n.**] *vocontiana, intermedia* **spp. n.,** Cretaceous France, FALLOT Mem. Carte Geol. Fr. **1920** pp. 233–235.—*G.,* BLONDET **64** p. 148.

†*Geoteuthis,* CRICK **155** p. 288.

†*Glaucolithites glaucolithus* **sp. n.,** BUCKMAN Type Amm. pt. **33** pl. cccvi A.

†*Glyphioceras* with *G. pseudo-bilingue* [**sp. n.**] Lower Carboniferous England, PEARSALL Naturalist London **1922** p. 226.

†*Goniatites,* PEARSALL **462.**—*G.,* SCHMIDT **540.**—*G.,* SHANNON **552** p. 248.

†*Gonioceras,* REUDEMANN **513a.**

†*Gonionotites* with *G. schuberti, irmintrudis, noricus, halaritiformis,* **spp. n.,** *G. Heinrichites* **subgen. n.** with *G.* (*H.*) *paulckei, grobbenii, furlaniae, waageni,* **spp. n.,** Trias Austria, DIENER Denkschr. Ak. Wiss. Wien **97** pp. 490–499.

†*Gowericeras* **gen. n.** *G. metorchum* **sp. n.,** BUCKMAN Type Amm. pt. **29** p. 54 & pl. ccliv; *G. ventrale* **sp. n.** BUCKMAN *op. cit.* pt. **32** pl. cclxxxviii; *G. planus* **sp. n.,** BUCKMAN *op. cit.* pt. **37** pl. cclxxxvii.*

†*Griesbachites* with *G. densicostatus waltharii, cornutus, goetzingeri,* **spp. n.** Trias Austria, DIENER Denkschr. Ak. Wiss. Wien **97** pp. 473–477.

†*Gyroceras halangense* **sp. n.** Devon Indo-China, MANSUY Mém. serv. géol. Indochine **8** p. 21.

†*Halilucites ornatus*, Hauer **var. n.** *penthesileiae* Trias, RENZ Verh. Natf. Ges. **33** p. 250.

†*Hammatoceras cappucinum* **sp. n.** Yeovilian, BUCKMAN Type Amm. pt. **26** pls. ccvi A B.

†*Hamulina worthensis* **sp. n.** Cretaceous U.S.A., ADKINS Univ. Texas Bul. **1856** p. 7.—*H.*, GIGNOUX **244.**

†*Hamulisphinctes hamulatus, auricula* **spp. n.** Callovian, BUCKMAN Type Amm. pt. **30** pls. cclxii A B & cclxiii.

†*Haploceras falculatum* **sp. n.** Jura Argentina, STEUER Act. Acad. Ci. Cordoba **7** p. 104.—*H.*, BEHRENDSEN **49** d. 180.

*Haptochlaena* **gen. n.** with *H. chuni* **sp. n.**, GRIMPE SitzBer. natf. Ges. **45–48** p. 41.

†*Harpoceras bodenbenderi* **sp. n.** Jura Argentina, STEUER Act. Acad. Ci. Cordoba **7** p. 106.—*H.*, BEHRENDSEN **49** p. 205.—*H.*, CRICK **155** p. 286.

†*Hecticoceras* with *H. bonyi, thirriai*, **spp. n.** Jura, France, PETITCLERC Descriptions de quelques formes nouvelles d'Ammonites, &c. Vesoul **1921** pp. 7–8 10–11 **467.**—*H.* with *H. garreti* **sp. n.** Jura France, PETITCLERC Note sur plusieurs espéces d'Ammonites &c. Vesoul **1918** pp. 7 21–22 **468.**—*H. lunula* **var. n.** *trifurcata* Jurassic, LEMOINE Bul. soc. hist. nat. Chambéry **19** pp. 143–146.

†*Helicoceras*, SPATH **562** p. 149.

*Heteroteuthis*, NAEF **427** Bd. I pls. viii xix.

†*Hildaites subserpentinus* **sp. n.** Whitbian, BUCKMAN Type Amm. pt. **26** pl. ccxvii; *H. serpentiniformis*, BUCKMAN *op. cit.* pt. **30** p. 55.

†*Hildoceras* with *H. sublevisoni* **sp. n.** Lias Italy, FUCINI Pal. ital. Pisa **25** pp. 181 183.

†*Hildoceratoides propeserpentinus* **sp. n.** Whitbian, BUCKMAN Type Amm. pt. **26** pl. ccxviii.

*Histioteuthis*, NAEF **427** Bd. I pls. iii xv xvii; Bd. II pl. viii.—*H.*, DEGNER **173.**

†*Hlawiceras platyrrymum* **sp. n.** Bajocian, BUCKMAN Type Amm. pt. **28** pl. ccxl.

†*Holcodiscoides* **gen. n.**, SPATH Trans. R. Soc. S. Af. **10** p. 124.

†*Holcodiscus* with *H. secunesiformis* **sp. n.** Cretaceous Italy, RODIGHIERO Pal. Ital. Pisa **25** pp. 99–101.

†*Holcostephanus* with *H.* (*Astieria*) *bodenbenderi, depressus*, **spp. n.**, Jura Argentina, STEUER Act. Acad. Ci. Cordoba **7** p. 94.

†*Homerites* with *H. heinrichii* **sp. n.** Trias Austria, DIENER Denkschr. Ak. Wiss. Wien **97** pp. 465–466.

†*Homoeoplanulites homoeomorphus* **sp. n.**, BUCKMAN Type Amm. pt. **35** pl. cccxxviii.

†*Hoplites* with *H. mendozanus, protractus, calistoides* Jura; *H.* with *H. angulatiformis, neumayri* Cretaceous, **spp. n.**, Argentina, BEHRENDSEN Act. Acad. Ci. **7** pp. 181–185 210–211.—*H.* with *H. subvetustus, quadripartitus*, **spp. n.**, Jura Argentina, STEUER Act. Acad. Ci. Cordoba **7** pp. 85–89.—*H.* (*Dalmasiceras*) *spiticeroides, subspiticeroides, punctatum*, Jurassic, France; *H. kiliani, crassicostatum*, Cretaceous, France, **spp. n.**, DJANÉLIDZÉ Bul. soc. geol. Paris **21** pp. 256–274.—*H.*, FRANKE **214.**

†*Hortoniceras sidericum* **sp. n.**, BUCKMAN Type Amm. pt. **32** pl. ccxcvi.

†*Hypocladiscites*, DIENER **179** p. 371.

*Idiosepiomorphae* **trib. n.**, GRIMPE SitzBer. natf. Ges. **45–48** p. 43.

*Illex coindeti*, CHADWICK **110.**—*I.*, NAEF **427** Bd. I pls. xii xiv xvii.

†*Inflaticeras* **gen. n.**, STIELER N. Jahrb. Min. **2** pp. 33–37.—*I.*, STIELER **582.**

†*Joannites helenae, klipsteini*, Mojs. var. *aegaeica* **sp. & var. n.** Trias, RENZ Verh. Natf. Ges. **33** pp. 237 239.

†*Jovites*, DIENER **180** p. 466.

†*Juvavites* with *J. angulocostatus, bülowii, salinarius, ampfereri*, **spp. n.**, Trias Austria, DIENER Denkschr. Ak. Wiss. Wien **97** pp. 468–472.

†*Kallilytoceras interlineatum* **sp. n.** Wessexian, BUCKMAN Type Amm. pt. **25** pls. cciv A B.

†*Kallistephanus kalus* **sp. n.** Bajocian, BUCKMAN Type Amm. pt. 27 pl. ccxxx.

†*Kamptokephalites kamptus* **sp. n.**, BUCKMAN Type Amm. pt. **36** pl. cccxlvii.

†*Kinkeliniceras* **gen. n.**, BUCKMAN Type Amm. pt. **27** p. 42.

†*Kitchinites* **gen. n.**, SPATH Trans. R. Soc. S. Af. **10** p. 127.

†*Kleistoxyites protusus* **sp. n.** Sonninian, BUCKMAN Type Amm. pt. **33** pl. cccxvii.

†*Kossmaticeras meseticum* **sp. n.** Cretaceous Argentine, BONARELLI & NÁGERA Bol. **27** Min. Ag. Dir. Gen. Minas Buenos Aires p. 27.

†*Kranaosphinctes kranaus* **sp. n.** Argovian, BUCKMAN Type Amm. pt. **28** pls. ccxliii A B.

†*Kumatostephanus kumaterus* **sp. n.** Sonninian, BUCKMAN Type Amm. pt. **36** pls. cccxlv A B.

†*Labyrinthoceras extensum* **sp. n.** Bajocian, BUCKMAN Type Amm. pt. **26** pl. ccxiv; *L. gibberulum, amphilaphes*, **spp. n.**, Sonninian, BUCKMAN *op. cit.* pt. **31** pls. cclxxviii & cclxxix.

*Lampadioteuthinae* **subfam. n.**, GRIMPE SitzBer. natf. Ges. **45–48** p. 46.

†*Leptosphinctes coronarius* **sp. n.** Bajocian, BUCKMAN Type Amm. pt. **25** pl. ccii.

†*Leucopetrites leucus* **sp. n.**, BUCKMAN Type Amm. pt. **33** pl. cccvii A.

†*Leukadiella helenae* **var. n.** *ticinensis* Lias Switzerland, RENZ Ec. Geol. Helvet. **17** p. 152.

†*Leveillia*, SHANNON **552** p. 249.

†*Lobites*, DIENER **179**.

*Loliginae* **subfam. n.**, GRIMPE SitzBer. natf. Ges. **45–48** p. 44.

*Loligo*, NAEF **427** Bd. I pls. i ii xii xiv xvii; Bd. II pls. i vii.

†*Lydistratites lyditicus* **sp. n.**, BUCKMAN Type Amm. pt. **37** pls. cccliii A B.

†*Lytoceras* with *L. liebigi*, Opp. mut. [? n.] *aptiensis* Cretaceous France, FALLOT Mém. Carte Géol. Fr. **1920** pp. 230–232.—*L. parvulum* **sp. n.** Jura France, GROSSOUVRE Bul. soc. géol. Paris **21** p. 314.—*L. rangei* **sp. n.** Vraconian Sinai, HOPPE Zs. D. Palästina-Ver. **1922** p. 142.—*L.*, GIGNOUX **244**.—*L.*, STEUER **580** p. 105.

†*Lytodiscoides* **gen. n.**, SPATH Trans. R. Soc. S. Af. **10** p. 126.

†*Macrocephalites verus* **sp. n.**, BUCKMAN Type Amm. pt. **35** pls. cccxxxiv A B.

†*Macroscaphites*, FALLOT **205** p. 247. —*M.*, GIGNOUX **244**.

*Macrotritopus*, GRIMPE SitzBer. natf. Ges. **45–48** p. 41.

†*Madarites madarus, calvus, pravus* **gen. & spp. n.**, BUCKMAN Type Amm. pt. **28** pp. 42 45–46.—*M. glabretus* **sp. n.** BUCKMAN *op.cit.* pt. **29** p. 52.

†*Malayites* with *M. styriacus, steigeri, antipatris*, **spp. n.**, Trias Austria, DIENER Denkschr. Ak. Wiss. Wien **97** pp. 487–490.

†*Manticoceras*, SHANNON **552** p. 251.

†*Marathonites* **subgen. n.** with *M. Smithi, sulcatus, vidriensis*, ? *M. hargisi*, **spp. n.**, Permo-Carbon., Texas, BÖSE Bul. Univ. Texas **1762** pp. 133–145.

†*Margarites*, DIENER **180** p. 507.

†*Medlicottia whitneyi, burckhardti*, **spp. n.**, Permo-Carbon., Texas, BÖSE Bul. Univ. Texas **1762** pp. 72–81.

†*Megaphyllites*, DIENER **179**.

†*Menuites* **gen. n.**, SPATH Trans. R. Soc. S. Af. **10** p. 123.

†*Merocanites* **gen. n.**, SCHWINDEWOLF Senckenbergiana Frankfurt a. M. **4** p. 15.

†*Metacanites* **gen. n.**, SCHWINDEWOLF Senckenbergiana Frankfurt a. M. **4** p. 15.

*Metacephalopoda* **subclass. n.**, GRIMPE SitzBer. natf. Ges. **45–48** p. 38.

†*Metacoceras pottsvillensis* **sp. n.** Carbon. U.S.A., MORNINGSTAR Geol. Surv. Ohio **25** p. 269.

†*Metasibirites* with *M. krumbeckii* **sp. n.** Trias Austria, DIENER Denkschr. Ak. Wiss. Wien **97** p. 510.

†*Miltites josephi* **sp. n.** Trias Austria, DIENER Denkschr. Ak. Wiss. Wien **97** p. 510.

†*Mollistephanus mollis* **sp. n.** Sonninian, BUCKMAN Type Amm. pt. **36** pl. cccxliv.

†*Morrisceras* [ = *Morrisiceras*] with *M. korustes, tolmerum, homœoticum, comma, sknipum* **spp. n.**, BUCKMAN Type Amm. Pt. **28** pp. 47–48 Pt. **32** pl. cclxxxv

†*Morrisites fornicatus* **gen. & sp. n.**, BUCKMAN Type Amm. **28** pp. 42 48.

†*Mortoniceras stangeri* (Baily) **varr. n.** *sparsicosta, densecosta* Cretaceous Pondoland, SPATH Trans. R. Soc. S. Af. **10** p. 138.—*M. worthenae* **sp. n.** Cretaceous U.S.A., ADKINS Univ. Texas Bul. **1856** p. 91.

†*Murleyiceras forte* **sp. n.** Whitbian, BUCKMAN Type Amm. pt. **29** pl. ccxlv; *M. aptum* **sp. n.**, BUCKMAN *op. cit.* pt. **34** pl. cccxvi.

†*Nannolytoceras subovale* **sp. n.**, BUCKMAN Type Amm. pt. **34** pls. cccxxiv A B.

*Nautilinae* **subfam. n.**, GRIMPE SitzBer. natf. Ges. **45–48** p. 38.

*Nautiloidea*, WOODWARD **656.**

*Nautilus*, NAEF **427** Bd. I pl. xvi.

†*Nautilus* with *N. perstriatus* **sp. n.** Jura Argentina, STEUER Act. Acad. Ci. Cordoba **7** p. 107.—*N. rangei* **sp. n.** Vraconian Sinai, HOPPE Zs. D. Palästina-Ver. **1922** p. 144.

†*Neokentroceras* with *N. curvicornu, subtuberculatum, pseudovaricosum*, **spp. n.**, Cretaceous Angola, SPATH Trans. R. Soc. Edinburgh **53** pp. 139–143.

†*Nevadites lissoni, sutanensis*, **spp. n.**, Trias S. America, JAWORSKI N. Jahrb. Min. Stuttgart Beil. Bd. **47** pp. 159–165.

†*Nowakites* **gen. n.**, SPATH Trans. R. Soc. S. Af. **10** p. 124.

†*Obtusicostites* **gen. n.**, BUCKMAN Type Amm. pt. **27** p. 42.

*Octopodinae* **nom. n.** *Octopodidae*, GRIMPE Zool. Anz. **52** p. 297.

*Octopodoteuthis sicula* varr. n. *mediterranea, atlantica* European Seas, GRIMPE SitzBer. natf. Ges. **45–48** p. 46.

*Octopus bimaculatus*, PARKER **460.**—*O., vulgaris*, MONTICELLI **414.**—*O.*, CRAIFALEANU **152.**—*O.*, NAEF **427** Bd. I pls. ix x xiii xvi xviii; Bd. II pl. xxiv.

*Ocythoë*, NAEF **427** Bd. I pls. xvi xviii; Bd. II pl. xxxvii.

†*Odontoceras* **gen. n.** with *O. anglicum*, Jura England; *O. transgrediens, beneckei, laxicosta, subcallisto, koeneni, intercostatum, fasciatum, subfasciatum, kayseri, tenerum, gracile, ellipsostomum, fallax, nodulosum, curviplex, planum, raripartitum, rotula, malarguense, permulticostatum* Jura, Argentina, **spp. n.**, STEUER Act. Acad. Ci. Cordoba **7** pp. 65–85.

†*Œcostephanus dolichoecus* **sp. n.** Bajocian, BUCKMAN Type Amm. pt. **30** pl. cclxv.

†*Olcostephanus*, BEHRENDSEN **49** p. 212.

*Ommatostrephes*, NAEF **427** Bd. I pls. v vi xii xiv xvii xix; Bd. II pls. ix–xii.—*O. todarus*, S. **531.**

*Ommatostrephina* **fam. n.**, GRIMPE SitzBer. natf. Ges. **45–48** p. 48.

†*Oncoceras*, REUDEMANN **513a.**

*Onychoteuthis* NAEF **427** Bd. I pls. iv xv xvii.

†*Oppelia* with *O. barbieri* **sp. n.** Jura France, PETITCLERC Note sur plusieurs espèces d'ammonites &c. Vesoul **1918** pp. 8 19 **468.**—*O. gerardi, mazetieri*, **spp. n.**, Jura France, PETITCLERC Descriptions de quelques formes nouvelles d'ammonites &c. Vesoul **1921** pp. 4–5 **467.**—*O.* with *O. perlaevis, perglabra*, **spp. n.**, Jura Argentina, STEUER Act. Acad. Ci. Cordoba **7** pp. 102–104.—*O.*, BEHRENDSEN **49** p. 203.

†*Orthoceras angustepartitum, patellifer, dispariseclusum* and var. *decipiens, O. proceracella, hunsrückianum, biornatum, biannulatum*, **spp. n.**, Devon Germany, FUCHS Abh. geol. Landesanst. **79** pp. 71–73.—*O. giengelsbergensis* **sp. n.** Devon Germany, DAHMER Jahrb. geol. Landesanst. **40** T. 2 p. 220.—*O.*, SHANNON **552** p. 250.—*O.*, REUDEMANN **513a.**

†*Oxynoticeras leptodiscus* **sp. n.** Lias Argentina, BEHRENDSEN Act. Acad. Ci. Cordoba **7** p. 167.

†*Pachammatoceras pachu* **sp. n.** Yeovilian, BUCKMAN Type Amm. pt. **26** pl. ccvii.

†*Pachydesmoceras* **gen. n.**, SPATH Trans. R. Soc. S. Af. **10** p. 127.

†*Pachydiscoides* **gen. n.**, SPATH Trans. R. Soc S. Af. **10** p. 124.

†*Pachydiscus*, BLONDET **64** p. 150.

†*Paltarpites paltus* **sp. n.**, BUCKMAN Type Amm. pt. **37** pl. cccLxxii A.

†*Papilliceras acantherum* **sp. n.** Bajocian, BUCKMAN Type Amm. pt. **25** pls. ccv A B.

†*Paraceltites multicostatus* **sp. n.** Permo-Carbon. Texas, BÖSE Bul. Univ. Texas **1762** p. 108.

†*Paralecanites altudensis* **sp. n.** Permo-carbon. Texas, BÖSE Bul. Univ. Texas **1762** p. 178.

†*Paralegoceras incertum* **sp. n.** Permo-carbon. Texas, BÖSE Bul. Univ. Texas **1762** p. 100.

†*Parapachydiscus zaccagnai* **sp. n.** Cretaceous Tripoli, FUCINI Mem. Descr. Carta Geol. Ital. **18** p. 120.

†*Parapuzosia haughtoni* **sp. n.** Cretaceous Pondoland **sp. n.** Cretaceous Pondoland, SPATH Trans. R. Soc. S. Af. **10** p. 128.

†*Paratropites* with *P. piritneri, myronis*, **spp. n.**, Trias Austria, DIENER Denkschr. Ak. Wiss. Wien **97** pp. 505–506.

†*Paravirgatites paravirgatus* **sp. n.**, BUCKMAN Type Amm. pt. **33** pl. cccviii.

†*Parkinsonites fullonicus* **sp. n.**, BUCKMAN Type Amm. pt. **33** pl. cccii and pt. **34** pl. cccii.*

†*Paroniceras helveticum, sternale*, Buch varr. *mendrisiensis, castellensis* **sp. & varr. n.** Lias Switzerland, RENZ Ec. Geol. Helvet. **17** pp. 139–152.

†*Patemorphoceras patescens* **sp. n.**, BUCKMAN Type Amm. pt. **36** pl. cccli.

†*Peltoceras J. Böhmi* **sp. n.** Jura Germany, KEGEL Jahrb. geol. Landesanst. **37** T. 1 p. 205.

†*Pericyclus* (*Caenocyclus*) *perisphinctoides, P. carinatus*, **spp. n.**, Carbon, Germany, SCHWINDEWOLF Senckenbergiana Frankfurt a. M. **4** pp. 11 18.

†*Perisphinctes* with *P. kokeni, torquatus*, **spp. n.**, Jura Argentina, BEHRENDSEN Act. Acad. Ci. Cordoba **7** pp. 186–191 209.—*P.* with *P. loncochensis, densistriatus, fasciculatus, noduliferus* **spp. n.**, Jura Argentina, STEUER Act. Acad. Ci. Cordoba **7** pp. 90–93.—*P. persicus, stahli, morgani, peluricus.* **spp. n.**, Persia, FISCHER Beitr. Pal. Geol. Ost.-Ung. **27** pp. 235–236 242. 245.—*P.* with *P. colardi, meyeri, poisoti, retrocostatus, revoli, rochei, zelleri*, **spp. n.**, Jura, France, PETITCLERC Note sur plusieurs espèces d'ammonites &c. Vesoul **1918** pp. 10–18 20 22–25 **468.**—*P.*, PETITCLERC **467** pp. 12–15.

†*Peronoceras* with *P.* ? *sparsinodum* **sp. n.** Lias Italy, FUCINI Pal. ital. Pisa **25** pp. 186–189.

†*Perrinites* **gen. n.** with *P. vidriensis, compressus*, **spp. n.**, Permo-carbon., Texas, BÖSE Bul. Univ. Texas **1762** pp. 155–168.

†*Phanerosphinctes phanerus* **sp. n.** Eningenian, BUCKMAN Type Amm. pt. **26** pl. ccxi.

†*Phragmoceras*, PRELL **495.**

†*Phylloceras hafisi, ferdusi*, **spp. n.**, Persia, FISCHER Beitr. Pal. Geol. Ost. Ung. **27** pp. 227–228.—*P. homophyllum* **sp. n.** Jura Argentina, BEHRENDSEN Act. Acad. Ci. Cordoba **7** p. 202.—*P.* with *P. moriezense, aptiense kiliani*, **spp. n.**, Cretaceous, France, SAYN Mem. Carte Geol. Fr. **1920** pp. 192–200.—*P.*, DIENER **179** p. 375.—*P.*, GIGNOUX **243.**

†*Pictetia*, GIGNOUX **244.**

†*Pinacoceras*, DIENER **179** p. 383.

†*Placites*, DIENER **179.**

†*Planammatoceras planiforme* **sp. n.**, BUCKMAN Type Amm. pt. **37** p. 256.

†*Planisphinctes planilobus* **sp. n.**, BUCKMAN Type Amm. pt. **35** pl. cccxxvii.

†*Pleurocephalites folliformis* **sp. n.**, BUCKMAN Type Amm. pt. **36** pl. cccxlviii.

†*Pleurocephalites lophopleurus* **sp. n.** Macrocephalitan, BUCKMAN Type Amm. pt. **32** pls. cclxxxiv A B.

†*Pleurophorites pleurophorus, polypleurus* **gen. & spp. n.**, BUCKMAN Type Amm. pt. **28** pp. 42 46–47.

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†*Pompeckjites*, DIENER 179 p. 385.

†*Proarcestes irenae, arethusae, subtridentinus* var. *arteminae*, spp. & var. n., Trias, RENZ Verh. Natf. Ges. 33 pp. 230–234.—*P.* with *P. sublabiatiformis, kerneri, welteri*, spp. n., Trias, Austria, DIENER Denkschr. Ak. Wiss. Wien 97 pp. 359–362.

†*Prohysteroceras* with *P. decipiens, dubium*, spp. n., Cretaceous, Angola, SPATH Trans. R. Soc. Edinburgh 53 pp. 143–147.

†*Prolecanites quadratus* sp. n. Carbon. Germany, SCHWINDEWOLF Senckenbergiana Frankfurt a. M. 4 p. 15.

†*Proplanulites* with *P. majesticus, basileus, laevigatus, ferruginosus, curvus, opimus, tornquisti, polonicus, occultus, latus, laboratus, fabricatus, involutus, lentus, apparatus, subcuneiformis, auriculatus, capistratus, rudis, oidaleus, stiphrus, petrosus, lyprus, tridens, trifurcatus, excentricus, partitus, rufus, fulvus, fracidus*, spp. n., BUCKMAN Type Amm. Pt. 26 pp. 33–40; *P. capularis* sp. n., BUCKMAN *op. cit.* Pt. 27 p. 41; *P. lobatus* sp. n., BUCKMAN *op. cit.* pt. 35 pl. cccxxx.

†*Proplanulitidae* fam. n., BUCKMAN Type Amm. pt. 25 p. 32.

†*Prorsisphinctes omphalicus* sp. n., BUCKMAN Type Amm. pt. 35 pl. cccxxvi.

†*Proteïtes thaleiae* sp. n. Trias, RENZ Verh. natf. Ges. 33 p. 247.

†*Prothalassoceras* gen. n. with *P. welleri* sp. n., Permo-carbon. Texas, BÖSE Bul. Univ. Texas 1762 pp. 102–106.

*Protocephalopoda* subclass. n., GRIMPE SitzBer. natf. Ges. 45–48 p. 38.

*Prototeuthoidea* fam. n., NAEF 35th Mon. Fauna Flora Golfes Neapel 1921 p. 142.

†*Protrachyceras annamense* sp. n. Trias Indo-China, MANSUY Mém. serv. géol. Indochine 7 p. 22.

†*Pseudojacobites* gen. n., SPATH Trans. R. Soc. S. Af. 10 p. 121.

†*Pseudokossmaticeras* gen. n., SPATH Trans. R. Soc. S. Af. 10 p. 126.

†*Pseudoschloenbachia pseudofournieri* sp. n. Cretaceous Pondoland, SPATH Trans. R. Soc. S. Af. 10 p. 140.

†*Ptycharcestes heinrichi* sp. n. Trias Austria, DIENER Denkschr. Ak. Wiss. Wien 97 p. 363.

†*Ptychites* with *P. pauli* Mojs var. *moreana, P. plusiae, globus* Hauer var. *epidaurensis*, sp. & varr. n. Trias, RENZ Verh. Natf. Ges. 33 pp. 224–229.—*P.*, CLAUS 120.

†*Ptychoceras*, SPATH 562 p. 150.

†*Puzosia* with *P. emerici*, Rasp. var. [? n.] *strigosa* sp. n. Cretaceous France, FALLOT Mem. Carte Geol. Fr. 1920 pp. 247–261.—*P. kossmati* sp. n. Vraconian Sinai, HOPPE Zs. D. Palästina-Ver. 1922 p. 140.—*P.*, SPATH 562 p. 153.

†*Reineckia* with *R. egregia, laticr argentina, mutata, grandis, steinmanni turgida, pawlowi, mangaensis, proxima, fraudans, striolatissima, striolata, planulistria, incerta*, spp. n., Jura Argentina, STEUER Act. Acad. Ci. Cordoba 7 pp. 49–65.—*R. tilli* sp. n. Persia, FISCHER Beitr. Pal. Geol. Ost. Ung. 27 p. 231.—*R.*, PETITCLERC 468 p. 26.

†*Rhabdoceras curvatum* nom. n. for *R. suessi*, Hau. var *curvatum*, Mojs., JAWORSKI N. Jahrb. Min. Stuttgart Beil. Bd. 47 p. 153.

*Rhynchoteuthion*, NAEF 427 Bd. I pl. vi.

*Rondeletiola*, NAEF 427 Bd. I pl. xix.

†*Rhytostephanus rhytus* sp. n. Bajocian, BUCKMAN Type Amm. pt. 29 pls. ccl A B.

*Rossia*, NAEF 427 Bd. I pls. xv xviii.

†*Rugiferites rugifer* gen. & sp. n., BUCKMAN Type Amm. pt. 28 pp. 42 46.

†*Sagenites*, DIENER 180 p. 499.

†*Sanmartinoceras patagonicum* gen. & sp. n. Cretaceous Argentina, BONARELLI & NÁGERA Bol. 27 Min. Ag. Dir. Gen. Buenos Aires p. 27.

†*Scaphites*, BLONDET 64 pp. 150–151.

†*Schistoceras smithi, diversecostatum*, spp. n., Permo-carbon., Texas, BÖSE Bul. Univ. Texas 1762 pp. 93–99.

†*Schloenbachia varians* varr. *ventriosa, nodulosa, costata* **varr. n.** Cretaceous, STIELER N. Jahrb. Min. **2** pp. 31–33.—*S. wenoensis, wintoni,* **spp. n.**,Cretaceous, U.S.A., ADKINS Univ. Texas Bul. **1856** pp. 89–90.

†*Schlotheimia,* TRUEMAN **603** p. 281.

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*Sepiadariidae* **fam. n.**, GRIMPE SitzBer. natf. Ges. **45–48** p. 43.

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*Sepiola* with *S. pfefferi* **sp. n.** North Sea, GRIMPE Zool. Anz. **53** p. 4.—*S.*, NAEF **427** Bd. I pls. xiii xix; Bd. II pl. xxiii.

†*Sigaloceras micans* **sp. n.** Callovian, BUCKMAN Type Amm. pt. **29** pl. cclv.

†*Silesites,* FALLOT **204.**

†*Skolekostephanus skolex* **sp. n.** Bajocian, BUCKMAN Type Amm. pt. **29** pl. ccxlix.

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†*Sphaeroceras tutthum* **sp. n.** Bajocian, BUCKMAN Type Amm. pt. **30** pl. cclviii.

*Sphaeromorphites* **gen. n.** with *S. sphaeroidalis* **sp. n.**, BUCKMAN Type Amm. pt. **28** p. 42 and pt. **29** p. 49.

*Spirula,* PRELL **494.**—*S.*, SCHMIDT **542.**

†*Spirulirostra americana* **sp. n.** Miocene America, BERRY Amer. J. Sci. **3** pp. 327–334.—*S. obtusa* **sp. n.** Oligocene, SCHLOSSER N. Jahrb. Min. Stuttgart Beil. Bd. **47** p. 277.

*Spirulaemorphae* **trib. n.**, GRIMPE SitzBer. natf. Ges. **45–48** p. 43.

†*Spiticeras falloti, lurense, planum* Uhl. var. *gallica, S. lamberti, subducale,* **spp. & var. n.**, Lower Cretaceous France, DJANÉLIDZÉ Trav. Lab. géol. Grenoble **12** pp. 324–332.

†*Stacheoceras bowmani, gilliamense,* **spp. n.**, Permo-carbon. Texas, BÖSE Bul. Univ. Texas **1762** pp. 128–133.—*S. uralicum* **sp. n.** Carbon Russia FREDERICKS Ann. Soc. Pal. Russia **3** p. 91.

†*Stegeostephanus stegeus* **sp. n.**, BUCKMAN Type Amm. pt. **33** pl. cccxii and pt. **34** p. cccxii.*

*Stenoteuthis,* NAEF **427** Bd. I pls. xii xiv xvii.

†*Stephanoceras* with *S. damesi* **sp. n.** Jura Argentina, STEUER Act. Acad. Ci. Cordoba **7** pp. 96–97.—*S.*, BEHRENDSEN **49** pp. 180 204.—*S.*, CRICK **155** p. 286.

†*Stepheoceras plagium* **sp. n.** Bajocian, BUCKMAN Type Amm. pt. **27** pl. ccxxix.

†*Stenarcestes,* DIENER **179.**

†*Stomphosphinctes stomphus* **sp. n.** Eningenian, BUCKMAN Type Amm. pt. **29** pl. ccxlvii.

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†*Suspensites suspensus* **sp. n.**, BUCKMAN Type Amm. pt. **36** pl. cccxlvi.

†*Sutherlandiceras albisaxeum* **sp. n.** BUCKMAN Type Amm. pt. **34** pls. cccxx A B.

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†*Taramelliceras* with *T. frequens, T.* (*Creniceras*) *gombinei,* **spp. n.**, Jura France, GROSSOUVRE Bul. soc. géol. Paris **21** pp. 308–311.

†*Teloceras labrum* **sp. n.**, BUCKMAN Type Amm. pt. **36** pls. cccl A B.

†*Tetragonites* with *T. depressus*, Rasp. **var.** [? **n.**] *kossmatelliformis* **sp. n.** Cretaceous France, FALLOT Mem. Carte Geol. Fr. **1920** pp. 237–247.—*T.*, HAYASAKA **284.**

†*Teudopsis*, CRICK **155** p. 288.

*Teuthoweniinae* **subfam. n.**, GRIMPE SitzBer. natf. Ges. **45–48** p. 51.

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†*Titanites titan* **sp. n.** Portlandian, BUCKMAN Type Amm. pt. **28** pls. ccxxxi A B.

*Todaropsis*, NAEF **427** Bd. I pls. xiv xvii xix.

†*Torneutoceras*, SPATH **562** p. 148.

†*Tornoceras*, SHANNON **552** pp. 249 250.

†*Toricelliceras subsulcatum* **sp. n.** BUCKMAN Type Amm. pt. **33** pl. cccx: *T. runciatum, subrotundum*, **spp. n.**, BUCKMAN *op. cit.* pt. **34** pls. cccxviii & cccxix.

†*Toricellites approximatus* **sp. n.**, BUCKMAN Type Amm. pt. **35** pl. cccxxxvi.

†*Trachysagenites* with *T. beckei* **sp. n.** Trias Austria, DIENER Denkschr. Ak. Wiss. Wien **97** pp. 500–502.

†*Tragodesmoceras* **gen. n.**, SPATH Trans. R. Soc. S. Af. **10** p. 127.

*Tremoctopus*, NAEF **427** Bd. I pls. x xvi; Bd. II pl. xxxi.

†*Trilobiticeras platygaster* **sp. n.** Sonninian, BUCKMAN Type Amm. pt. **31** pls. cclxxvii A B.

†*Trimarginites* with *T. sauvageti* **sp. n.** Jura France, GROSSOUVRE Bul. soc. géol. Paris **21** p. 307.

†*Trinisphinctes trinus* **sp. n.**, BUCKMAN Type Amm. pt. **35** pl. cccxxxii.

†*Trochoceras orientale* **sp. n.** Devon, HÜFFNER Jahrb. geol. Landesanst. **37** T. 1 p. 276.

†*Trophonites trophon* **sp. n.**, BUCKMAN Type Amm. pt. **34** pls. cccxxv A B; *T. imperator* **sp. n.**, BUCKMAN *op. cit.* pt. **36** pl. cccxliii A B.

†*Tropites* with *T. klebelsbergii* **sp. n.** Trias Austria, DIENER Denkschr. Ak. Wiss. Wien **97** pp. 502–505.

†*Tulites cadus, tula* **gen. & spp. n.**, BUCKMAN Type Amm. pt. **28** pp. 43 45.

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†*Tulophorites praeclarus, tulotus* **gen. & spp. n.**, BUCKMAN Type Amm. pt. **28** pp. 43 45.

†*Turrilites bosquensis* **sp. n.** Cretaceous U.S.A., ADKINS Univ. Texas Bul. **1856** p. 76.

†*Uddenites* **gen. n.** with *U. schucherti, minor*, **spp. n.**, Permo-carbon, Texas, BÖSE Bul. Univ. Texas **1762** pp. 55–56.

†*Uhligella*, FALLOT **205.**

†*Vidrioceras* **subgen. n.** with *V. uddeni, irregulare*, **spp. n.**, Permo-carbon., Texas BÖSE Bul. Univ. Texas **1762** pp. 146–154.

†*Waagenoceras dieneri* **sp. n** Permo-carbon, Texas, BÖSE Bul. Univ. Texas **1762** p. 171.

†*Wagnericeras* **gen. n.**, BUCKMAN Type Amm. pt. **25** p. 33.

†*Waldthausenites* with *W. idunae, forsteri*, **spp. n.**, Trias, Austria, DIENER Denkschr. Ak. Wiss. Wien **97** pp. 509–510.

†*Xeinophylloceras xeinus* **sp. n.** Yeovilian, BUCKMAN Type Amm. pt. **30** pls. cclxvi A B.

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†*Zigzagites imitator* **sp. n.**, BUCKMAN Type Amm. pt. **33** pl. ccci.

†*Zugophorites zugophorus* **sp. n.**, BUCKMAN Type Amm. pt. **36** pl. cccxli.

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†*Aligena degrangei* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 114.

*Amphidoxa*, ODHNER **437** p. 230.

†*Cyclinella beteyensis, subquadrata* Hanley var. *quitana* **sp.** & **var. n.** Miocene Costa Rica, OLSSON Bul. Amer. Pal. **39** pp. 242–243.

*Cystopelta* **gen. n.**, TATE Trans. R. Soc. Tasmania (1880) **1881** p. 17. [Omitted from previous records.]

*Diaphanella* **gen. n.**, HESSE Nachr. Bl. D. malak. Ges. **48** 1916 p. 124. [Accidentally omitted from previous records.]

*Eduardia* **gen. n.**, HESSE Nachr.Bl. D. malak. Ges. **48** 1916 p. 124. [Accidentally omitted from previous records.]

*Fernandezia* with *F. cylindrella* **sp. n.** Masatierra, ODHNER Nat. hist. of Juan Fernandez **3** 2 p. 242 figs.

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†*Heligmina* ? *paucisinuata* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 160.

†*Kochia*, REED **506** p. 272.

†*Lanbrieria oligocaenica* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 113.

†*Microstagon ultimum* **sp. n.** Eocene, COSSMANN Mém. soc. géol. Paris **23** & **24** Mém. **55** p. 119.

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*Pagodula* **gen. n.**, HESSE Nachr.Bl. D. malak. Ges. **48** 1916 p. 124. [Accidentally omitted from previous records.]

*Pallarya* **gen. n.**, HESSE Nachr.Bl. D. malak. Ges. **48** 1916 p. 124. [Accidentally omitted from previous records.]

†*Pseudonerinea novicastri* **sp. n.** Mesozoic, ROLLIER Abh. Schw. Pal. Ges. **44** p. 99.

†*Psilotissotia*, GIGNOUX **245**.

†*Pulchellia*, GIGNOUX **245**.

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# IX. CRUSTACEA

ARRANGED BY

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†*Pseudothelphusa castillinensis* **sp. n.** Tertiary Spain p. 399 text-figs., SZOMBATHY t.c.

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# X. ARACHNIDA

TO WHICH ARE ADDED

## ARTHROPOD GROUPS

OTHER THAN

## INSECTA AND CRUSTACEA.

[GIGANTOSTRACA (XIPHOSURA, EURYPTERIDA, TRILOBITA), PANTOPODA, TARDIGRADA, PENTASTOMIDA, MYRIOPODA, AND PROTOTRACHEATA.]

ARRANGED BY

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(Vacant.)

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*Scutigera nubila* **sp. n.** Costa Rica p. 9 pl. i, CHAMBERLIN Proc. U. S. Nat. Mus. **60** No. 7.

## Pauropoda.

(Vacant.)

## Diplopoda.

BRADE-BIRKS **20**; BROLEMANN **30, 31**; KRAUSSE **120.**

New British records, BAGNALL **6**; BRADE-BIRKS **21.**

Synonymy in Julidae and Nemasomidae, CHAMBERLIN **48.**

Epinannolenoidea **subord. n.** p. 2, CHAMBERLIN Proc. U. S. Nat. Mus. **61** Art. **10.**

Epinannolenidae **fam. n.** synonymy p. 2, CHAMBERLIN t.c.

Glyphiulinae **nom. n.** for Glyphiocambalinae (Attems) p. 2, CHAMBERLIN t.c.

*Alocodesmus dromeus* **sp. n.** Panama p. 48 pl. xviii, CHAMBERLIN Proc. U. S. Nat. Mus. **60** No. 8.

*Amphelictogon dolius* p. 14, *pinetorum* p. 15 pl. v, **spp. n.**, W. Indies, CHAMBERLIN Proc. U. S. Nat. Mus. **61** Art. 10.

*Amplinus manni* p. 41, *orphnius* p. 42, *niteus* p. 43 **spp. n.**, C. America pl. xvi, CHAMBERLIN Proc. U. S. Nat. Mus. **60** No. 8.

*Atylophor* **gen. n.** near *Trichomorpha* p. 49, *rafaelanus* Guatemala p. 50 pls. xviii–xix, CHAMBERLIN t.c.

*Arolus* **gen. n.** near *Allopocockia* p. 34, *purulanus* **sp. n.** Guatemala p. 35 pls. xiii–xiv, CHAMBERLIN t.c.

*Calyptophyllum* **gen. n.** near *Paectophyllum* p. 62, *obvolvatum* p. 63, *integrum* p. 67, **spp. n.**, Persia text-figs., BROLEMANN Proc. R. Soc. Edin. **42.**

*Cambalopsis butteli* **sp. n.** Sumatra p. 577 text-figs., CARL Zool. Jahrb. Syst. **44.**

*Ceratosphys* **gen. n.** (Attemsiinae) p. 25 *amoena, simoni* p. 30, **spp. n.**, Pyrenees text-figs. (*Haplosphys*) **subgen. n.** *hispanica* **sp. n.** p. 26, RIBAUT Bul. soc. hist. nat. Toulouse **48.**

*Chondrodesmus singularis* p. 44, *tuberculifer* p. 45, *alidens, panamenus* p. 46, **spp. n.**, C. America pls. xvi–xviii, CHAMBERLIN Proc. U. S. Nat. Mus. **60** No. 8.

*Cleidogona ceibana* **sp. n.** Honduras p. 11 pl. vi, CHAMBERLIN t.c.

*Cubobolus* key to W. Indian spp., *cinchonanus* **sp. n.** W. Indies p. 10 pl. iii, CHAMBERLIN Proc. U. S. Nat. Mus. **61** Art. 10.

*Cubocricus* **gen. n.** near *Rhinocricus suprenanus, duvernoyi* p. 5 pl. iii, CHAMBERLIN t.c.

*Curodesmus* **gen. n.** near *Neoleptodesmus guatamalensis* **sp. n.** Guatemala p. 55 pls. xxii–xxiii, CHAMBERLIN Proc. U. S. Nat. Mus. **60** No. 8.

*Cyclodesmus pinetorum* **sp. n.** W. Indies p. 16 pl. vi, CHAMBERLIN Proc. U. S. Nat. Mus. **61** Art. 10.

*Desmethus* **gen. n.** (Platydesmidae), *setifer* **sp. n.** Guatemala p. 6 pl. i, CHAMBERLIN Proc. U. S. Nat. Mus. **60** No. 8.

*Diaporus culebrae* **sp. n.** Panama p. 18 pls. viii–ix, CHAMBERLIN t.c.

*Epinannolene trinidadensis* p. 3 pl. ii, CHAMBERLIN **53.**

*Glomeridesmus centralis* **sp. n.** Guatemala p. 61 pl. xxv, CHAMBERLIN Proc. U.S. Nat. Mus. **60** No. 8.

*Glomeroides* **gen. n.** (Glomeridae), *centralis* **sp. n.** Guatemala p. 60 pls. xxiv–xxv, CHAMBERLIN t.c.

*Gymnogonodesmus* **gen. n.** near *Treseolobus* p. 569, *virilis* **sp. n.** Java p. 570 text-figs., CARL Zool. Jahrb. Syst. **44.**

*Gymnostreptus laetus, vagans* p. 13, *pacificus* p. 14 **spp. n.** C. America pls. vi–vii, CHAMBERLIN Proc. U. S. Nat. Mus. **60** No. 8.

*Holistophallus peregrinus* p. 57 pls. xxiii–xxiv, CHAMBERLIN **52.**

†*Julus* spp. ? p. 25, *platyurus* pp. 26, 72 text-figs., NADAY **160.**

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*Nannolene burkei* p. 2 pl. i, CHAMBERLIN **53.**

*Nesobolus toroanus* p. 3 pl. ii, *yaterus, libanonus* p. 4 pls. ii–iii, **spp. n.**, West Indies, CHAMBERLIN Proc. U. S. Nat. Mus. **61** Art. 10.

*Nyssodesmus nigricaudus* p. 37, *mimus* p. 38, *nicaraguanus* p. 39, **spp. n.**, C. America pls. xv–xvi, CHAMBERLIN Proc. U. S. Nat. Mus. **60** No 8.

*Odontopyge hereronia* **sp. n.** S. W. Africa p. 101 text-fig., ATTEMS-PETZENSTEIN in Michaelsen Land sussw. fauna d. S. W. Afrik **2.**

*Opisotretus butteli* p. 573, *setosus* p. 574, **spp. n.**, Sumatra text-figs., CARL Zool. Jahrb. Syst. **44.**

*Orthoporus absconsus* p. 15, *discriminans, cobanus* p. 16, **spp. n.**, C. America pls. vii–viii, CHAMBERLIN Proc. U. S. Nat. Mus. **60** No. 8.

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*Paeromopus lysiopetalinus* (female) p. 287 pl. xix, *chamberlini* **sp. n.** California pp. 289, 298 pl. xxiv, BROLEMANN Ann. Ent. Soc. Amer. **15.**

*Paraiulus tiganus* p. 290 pls. xx-xxi, *pennsylvanicus* p. 291 pl. xxi, *immaculatus* p. 292 pl. xxii, *impressus* p. 294 pls. xxii–xxiii, *venustus* p. 295 pl. xxiii (females), BROLEMANN t.c.

*Parajulus leucoclius* **sp. n.** Guatemala p. 19 pl. ix, CHAMBERLIN Proc. U. S. Nat. Mus. **60** No. 8.

*Platydesmus interruptus* **sp. n.** Honduras, *interruptus simplex* **var. n.** Honduras p. 5 pl. i, CHAMBERLIN t.c.

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*Polyxenus bartschi* **sp. n.** Florida p. 165, CHAMBERLIN Ent. News Philadelphia **33.**

*Prionopeltis butteli* **sp. n.** Java p. 576 text-figs., CARL Zool. Jahrb. Syst. **44.**

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*Ricodesmus* **gen. n.** near *Chondrodesmus stejnegeri* **sp. n.** W. Indies p. 15 pls. v–vi, CHAMBERLIN Proc. U. S. Nat. Mus. **61** Art. 10.

*Schistides* **gen. n.** near *Trichomorpha atopophallus* p. 51 pl. xix, CHAMBERLIN Proc. U. S. Nat. Mus. **60** No. 8.

*Schizophyllum moreleti* subsp. *lienharti* **subsp. n.** Gironde p. 182 text-figs., BROLEMANN Bul. soc. hist. nat. Toulouse **49.**

*Siphonophora grandis* p. 566, *minuta* p. 568, **spp. n.**, Malacca text-figs., CARL Zool. Jahrb. Syst. **44**; *S. barberi*, *telana* p. 7, *fallens* p. 8, *progressor* p. 9, **spp. n.**, C. America pls. ii–iv, *globiceps* p. 8, CHAMBERLIN Proc. U. S. Nat. Mus. **60** No. 8.

*Spelaeoglomeris andreinii* **sp. n.** Liguria p. 19 text-fig., SILVESTRI Bul. soc. ent. Ital. Genova **54.**

*Sphaeriodesmus hondurasanus* **sp. n.** Honduras p. 57 pls. xiv–xv, CHAMBERLIN Proc. U. S. Nat. Mus. **60** No. 8.

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## PROTOTRACHEATA.

BARNARD **9**; DAKIN **66.**

*Paraperipatus vanheurni* **sp. n.** N. Guinea p. 114, HORST Zool. Meded. Leiden **7.**

*Peripatus* (*Oroperipatus*) *peruvianus* **sp. n.** Peru p. 383 pl. text-figs., BRUES Bul. Mus. Comp. zool., Harvard **61.**

# XI. INSECTA

BY

THE IMPERIAL BUREAU OF ENTOMOLOGY

(Assisted by N. D. Riley and W. H. T. Tams).

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Hawaiian Islds., *Coleoptera*, FULLAWAY, 1035; GIFFARD, *Cerambycidae*, 1098; VAN DYKE, 2882, *Apterocyclus honoluluensis*, 2881; *Hymenoptera*, GIFFARD, 1096; ROHWER, *Chrysididae* 2400; TIMBERLAKE, 2792, *Encyrtidae*, 2794, *Chalcididae*, 2795; *Hemiptera*, GIFFARD, *Delphacidae*, 1097; MUIR, *Delphacidae*, 1992, 1994; MYERS, *Siphanta acuta*, 2024; *Dermaptera* and *Orthoptera*, HEBARD, 1229; *Zoraptera*, CAUDELL, 463; Galls, VAN LEEUWEN, 2886.

**Palaearctic Region.**

(a) **Collectively.**

*Coleoptera.*

BAROVSKY, *Exochomus*, 149; NETOLITZY, *Bembidium*, 2050a; REITTER, *Helopinae*, 2350, 2351.

*Hymenoptera.*

MEYER, *Sphecodes* 1922; SKORIKOV, *Bombyliidae*, 2588.

*Diptera.*

HENDEL, 1252; KRÖBER, *Tabanidae*, 1601; LICHTWARDT, 1714.

(b) **Europe**, collectively.

*Coleoptera.*

DODERO, *Dryops*, 740; HOULBERT, 1339.

*Hymenoptera.*

RUSCHKA, *Chalcis*, 2432.

*Diptera.*

STEIN, *Anthomyidae* 2655; TONNOIR, 2802.

(c) **North Europe and Siberia.**

*Insecta.*

DEMEL, Lake Wigry, 700; TULLGREN & WAHLGREN, Sweden, 2832.

*Coleoptera.*

FALKENSTRÖM, Gotska Sandön, Faroes, 907; SPESSIVTSEFF, Sweden, 2628.

*Hymenoptera.*

DUBOIS, Belgium, 769; HOUSIAUX, Belgium, 1342; JORGENSEN, Denmark 1475; SHESTAKOV, 2566.

*Lepidoptera.*

KARVONEN & LÖFQUIST, Aaland Is., 1493.

*Neuroptera.*

LESTAGE, Belgium, 1702.

*Diptera.*

FORSIUS, Finland *Cecidomyidae*, 984; LUNDBECK, Denmark, 1753; SHTAKELBERG, Petrograd, *Nematocera*, 2567, *Asilidae*, 2568; SKORIKOV, *Bombyliidae*, 2589.

*Hemiptera.*

HENRIKSEN, Denmark, *Coccidae*, 1257.

*Odonata.*

BARTENEV, Stavropol, 154.

*Orthoptera.*

LESTAGE, Belgium, 1704; PONGRACZ Poland, 2281.

(d) **British Islands.**

SHEPPARD, *Insecta*, 2563; MORLEY, *Hymenoptera*, 1966; PIERCE & METCALFE, *Tortricidae*, 2255; CHEETHAM, *Ptychoptera*, 495; EDWARDS, Jassinae, 817; CRAVEN, Sussex, *Odonata*, 613.

(e) **Central and Eastern Europe.**

*Coleoptera.*

AMMANN & KNABL, N. W. Tyrol, 57; BOKOR, N. W. Hungary, *Duvalites*, 306; EVERTS, Holland, 881.

*Hymenoptera.*

ESBEN-PETERSEN, 871; BLÜTHGEN, Pomeranian Bee fauna, revision of, 295; HEDICKE, Gr.-Machnower Weinbergs, 1232; LEIMINGER, Baden, 1684; MAIDL, Dalmatia, 1797; NOSKIEWICZ, Podolia, 2074, 2075.

*Lepidoptera.*

CARADJA, Rumania, **442**; GILLMER, Saxony, **1103**; GRABE, Ruhr district, **1137**; JENSEN, Zealand, **1417**; MÖBIUS, Saxony, **1951**; SORHAGEN, Mark Brandeburg, **2617**.

*Diptera.*

GOETGHEBUER, Belgium, **1122**; LEIMINGER, Baden, **1684**; NIELSEN, Denmark **2061**; PARENT, Belgium, **2148**.

*Hemiptera.*

HOFMÄNNER, Switzerland, **1303**; REICHENSPERGER, Germany, **2341**.

*Thysanoptera.*

TÜMPEL, **2833**.

*Psocoptera.*

TÜMPEL, **2833**.

*Plecoptera.*

TÜMPEL, **2833**.

*Ephemeroptera.*

TÜMPEL, **2833**.

*Odonata.*

TÜMPEL, **2833**.

*Orthoptera.*

LEIMINGER, Baden, **1684**; TÜMPEL, **2833**.

*Apterygota.*

STACH, N.W. Hungary, **2632**.

(f) **France.**

*Coleoptera.*

BARTHE, **159, 160, 161**; BÉTIS, Rhipiphorides gallo-rhénans, **244**; HOULBERT & MONNOT, **1340**; JEANNEL, **1406**.

*Lepidoptera.*

GOUIN, Gironde, **1132**; OBERTHÜR & HOULBERT, Rhopalocères armoricaines, **2099**.

*Diptera.*

PIERRE, **2258**.

(g) **South Europe and Mediterranean Basin.**

*Insecta*, collectively.

INNES, **1384**.

*Coleoptera.*

FUENTE, Spain, **1034**; IGLESIAS, Spain, **1379**; JEANNEL, **1403, 1404**, North Africa, **1410**; JORDA, Balearic Is., **1459**; MATCHA, **1874**; THÉRY, Morocco, *Tenebrionidae*, **2764**; WILKE, **3943**.

*Hymenoptera.*

MERCET, Spain, **1911**.

*Lepidoptera.*

STAUDER, Illyro-Adriatic, **2639**.

*Diptera.*

EFFLATOUN, *Syrphidae*, **819**.

*Orthoptera.*

CSIKI, Albania, **632**.

(h) **Caucasus, West and Central Asia.**

PEILE, Mesopotamia, *Lepidoptera*, **2197**.

**Africa.**

*Coleoptera.*

BERNHAUER, *Staphylinidae*, **237**; GEBIEN, *Tenebrionidae*, **1066**; GHESQUIÈRE, *Helopeltis*, **1088**; HINTZ, *Cerambycidae*, **1292**; KERREMANS, *Buprestidae*, **1508**; KLEINE, *Brenthidae*, **1533, 1541** LABOISSIÈRE, *Galerucidae*, **1622**; MOSER, *Cetoniidae* **1988**; OHAUS, *Rutelidae*, **2114**; SCHMIDT, *Callichrominae*, **2491**; VOSS, *Rhynchitinae*, **2921**; WEISE, *Chrysomelidae* & *Coccinellidae*, **3001**; WILKE, **3043**.

*Hymenoptera.* Formicidae

ARNOLD, *Sphegidae* **72, 73**; ENSLIN, *Tenthredinidae*, **862**; FRIESE, *Apidae*, **1008, 1015**; MEYER, *Sphecodes*, **1922**; STITZ, *Formicidae*, **2669**; SZÉPLIGETI, *Braconidae*, **2721**; WHEELER, *Formicidae*, **3935**.

*Lepidoptera.*

AURIVILLIUS, **90**; BETHUNE-BAKER, *Catochrysops*, **242**; ELTRINGHAM, *Neptis*, **830**; JORDAN, *Ludiinae*, **1470**; SCHULTZE, **2508**.

*Diptera.*

ENDERLEIN, *Micropezidae*, **847**.

*Hemiptera.*

LEHMANN, *Pentatomidae* **1681**; MELICHAR, **1896**.

*Isoptera.*

SJÖSTEDT, 2584.

*Odonata.*

LE ROI, 1694.

*Orthoptera.*

REHN, 2337.

*Dermaptera.*

REHN, 2337.

*Protura.*

SILVESTRI, 2579.

**Madagascar and Mascarene Islands.**

*Insecta.*

HOUARD, Galls, 1334.

*Coleoptera.*

ARROW, *Erotylidae, Endomychidae,* 76; AURIVILLIUS, *Cerambycidae,* 82; BERNHAUER, *Staphylinidae,* 239; FLEUTIAUX, *Melasidae, Elateridae,* 970; GEBIEN, *Tenebrionidae,* 1067; HUSTACHE, *Curculionidae,* 1368; JORDAN, *Anthribidae,* 1468; KLEINE, *Brenthidae,* 1542, 1544; LESNE, *Buprestidae,* 1696; MOSER, 1975, 1982, 1983; PIC, 2226, 2228, 2239, 2240, 2241; SCHENKLING, 2468; SCHMIDT, 2472; SCOTT, 2524, 2525; VOSS, *Rhynchitinae,* 2921; WEISE, *Hispidae,* 2996; WILKE, 3943.

*Hymenoptera.*

FRIESE, 1008; WHEELER, *Formicidae,* 3932, 3936.

*Lepidoptera.*

ELTRINGHAM, 830; GAEDE, 1046; LE CERF, 1669, 1675; OBERTHÜR, 2096; PROUT, 2316, 2320.

*Diptera.*

COLLIN, *Empididae,* 586; LAMB, 1637.

*Hemiptera.*

LALLEMAND, *Belbina,* 1636.

**Asia, Tropical and Eastern.**

*Insecta.*

ESAKI, 865.

*Coleoptera.*

SCHMIDT, 2472; VOSS, *Rhynchitinae,* 2920.

*Hymenoptera.*

MEYER, 1921.

*Lepidoptera.*

FRUHSTORFER, 1031; GRÜNBERG, 1161; HERING, *Chalcosiinae,* 1272; STRAND, 2699; WARREN, 2947.

*Trichoptera.*

KUWAYAMA, 1617.

*Diptera.*

BECKER, *Dolichopidae,* 172; EDWARDS, 810; ENDERLEIN, *Micropezidae,* 847.

*Hemiptera.*

GREEN, *Coccidae,* 1150.

*Odonata.*

LAIDLAW, 1631.

**Formosa.**

*Coleoptera.*

OHAUS, 2113; BERNHAUER, 234; GESTRO, *Hispidae,* 1084; GILLET, 1101; HAUSER, *Carabidae,* 1211; SCHENKLING, 2465, 2466; ZIMMERMANN, 3101.

*Hymenoptera.*

RENGEL, 2352.

*Lepidoptera.*

PROUT, 2319; STRAND, 2690.

*Diptera.*

HERMANN, 1275; OLDENBERG, 2120; RIEDEL, 2366; SACK, *Syrphidae,* 2436.

**Asiatic Archipelago.**

Java to New Guinea, incl. Philippines.

*Insecta.*

DAMMERMAN, Krakatau, 662.

*Coleoptera.*

FRIEDERICHS, 1004; GEBIEN, 1065; GESTRO, Philippine Is., 1080, 1086; GILLET, 1101; HELLER, 1246; HUBENTHAL, 1349; KLEINE, 1533, 1534, 1543, 1544, Philippine *Brenthidae,* 1535; OBENBERGER, 2088; PIC, 2224, 2226; SCHMIDT, 2472; SCHULTZE, Philippines, 2509; VOSS, *Rhynchitinae,* 2921; WEISE, 2997.

*Hymenoptera.*

COCKERELL, 555; KIEFFER, *Serphidae*, 1523; MEYER, 1921; ROHWER, 2397; VIEHMEYER, 2898.

*Lepidoptera.*

GRÜNBERG, 1160; HERING, *Chalcosiinae*, 1272; PENDLEBURY, 2198; PROUT, 2321; SEITZ and STRAND, 2534; STRAND, Philippines, 2694, *Liphyra*, 2695; WARREN, 2947.

*Neuroptera.*

NAVÁS, 2033.

*Diptera.*

BANKS, 122; ENDERLEIN, *Micropezidae*, 847; HERMANN, Formosa, 1275.

*Hemiptera.*

HORVÁTH, 1329; JACOBI, 1395; KARNY, 1488.

*Odonata.*

LAIDLAW, 1630.

**Australia and Tasmania.**

*Coleoptera.*

CARTER, 449; HILL, 1287; KLEINE, 1545; LEA, 1661, 1662, 1663; OBENBERGER, 2088; WEISE, 2993.

*Hymenoptera.*

VIEHMEYER, 2898.

*Lepidoptera.*

MEYRICK, 1931; PROUT, 2321; TURNER, 2836, 2838.

*Trichoptera.*

TILLYARD, 2782.

*Neuroptera.*

NAVÁS, 2033; TILLYARD, 2784.

*Diptera.*

ALEXANDER, *Tipulidae*, 35; ENDERLEIN, *Micropezidae*, 847; HARDY, 1189, 1190, 1191, *Stratiomyiidae*, 1192, *Bombyliidae* and *Cyrtidae*, 1193; FERGUSON and HILL, *Tabanidae*, 936; JOHNSTON and TIEGS, 1438; PARKER, 2155; TILLYARD, 2783.

*Hemiptera.*

JACOBI, 1395; MUIR, 1999.

*Thysanoptera.*

KARNY, 1492.

*Isoptera.*

HILL, 1285, 1286.

*Orthoptera.*

FROGGATT, 1021; SHAW, *Blattidae*, 2557.

**North America.**

*Insecta*, collectively.

CRIDDLE, Ontario, (1920) 623, (1921) 624.

*Coleoptera.*

BEAULIEU, *Eucnemidae*, 167; BEAULNE, 168; GARNETT, *Buprestidae*, 1055; HOPPING, 1317; KNULL, 1577; WILKE, 3943.

*Hymenoptera.*

BRADLEY, 346; MEYER, *Sphecodes*, 1922; YUASA, Tenthredinoidea larvae, 3091.

*Lepidoptera.*

BARNES and BENJAMIN, 137, 138, 139, 140, 141; BLACKMORE, 280; DRAUDT, 767; MOORE, 1957; SEITZ, 2532.

*Diptera.*

BECKER, 173; ENDERLEIN, *Micropezidae*, 847; SHANNON, *Syrphidae*, 2553, 2554, 2555; TOTHILL, 2815.

*Hemiptera.*

DOZIER, 755; JORDAN, *Polyctenidae*, 1461; KNIGHT, 1571; LAWSON, *Cicadellidae*, 1659, *Cicadidae*, 1660; LUNDBLAD, 1754; OSBORN, 2135; PARSHLEY, 2167.

*Thysanoptera.*

WATSON, Florida, 2965, 2968, 2969, 2971, 2976, 2979, 2980.

*Orthoptera* and *Dermaptera.*

BUCKELL, 407; HEBARD, 1226.

*Protura.*

EWING, 887

**Central America.**

*Coleoptera.*

Voss, *Rhynchitinae*, **2921**.

*Lepidoptera.*

Draudt, **766**; Seitz, **2532**.

*Diptera.*

Becker, **173**; Enderlein, *Micropezidae*, **847**.

*Orthoptera.*

Hebard, **1227**.

**Antilles.**

*Coleoptera.*

Kleine, **1538**; Pic, **2226**.

*Neuroptera.*

Lacroix, **1624**.

*Hemiptera.*

Ballou, *Dysdercus*, **119**; Drake, **758**; Gowdey, *Coccidae*, **1135**; Schmidt, **2473**.

*Thysanoptera.*

Watson, **2975, 2981**.

**South America.**

*Coleoptera.*

Casey, *Barinae*, **452**; Kleine, **1533**; Schmidt, **2472**; Voss, *Rhynchitinae*, **2921**; Wilke, **3943**.

*Hymenoptera.*

Friese, *Coelioxys*, **1005**; Herbst, *Halictus*, **1269**; Meyer, *Sphecodes*, **1922**.

*Lepidoptera.*

Draudt, **766**; Seitz, **2532**.

*Diptera.*

Becker, **173**; Bezzi, *Chiromyza*, **258**; Enderlein, *Micropezidae*, **847**.

*Hemiptera.*

Pennington, *Coreidae*, **2202**.

*Mallophaga.*

Ferris, *Trimenoponidae*, **940**.

## III.—SYSTEMATIC.

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CALDER Canad. Entom. **54**.—*C. brevisexstriata* **sp. n.** p. 105 N.E. Africa, *pronotalis* **sp. n.** p. 108 Tonkin, HORN Zool. Meded. Mus. Leiden **7**.—*C. denverensis* Csy. *propinqua* **var. n.** p. 194, *prisilla* **var.** *imperfecta, continua* **f.n.** p. 195 W. America (U.S.), KNAUS J. New York Ent. Soc. **30**.—*C. fischeri* Ad. *elongato-signata* **subsp. n.** p. 21 Trans Caspian, HORN Ent. Misc. **11**.—*C. lunulata* **ab. n.** *barthei, campestris* **ab. n.** *soli* France p. 60, TAREL Misc. Ent. **26**.—*C. tascosaensis* **sp. n.** Texas p. 34 (fig.), DAVIS Bull. Brooklyn Ent. Soc. **13** 1918.—*C. tranquebarica* **vars.** *niyo, owena* **n.** Cal. p. 106, FALL Bull. Brooklyn Ent. Soc. **12** 1917.—*C. trisignata* **abb. n.** *mediterranea, atlantica* France p. 53, *germanica* **ab. n.** *lamaschei* p. 68, and revision of French species p. 51–53, BARTHE Misc. Ent. **26**.—*C. turkestanica karavaievi* **subsp. n.** p. 73 Transcaspia LUTSHNIK Bull. Moscow Ent. Soc. **2**.

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*Megacephala bocandei* Guér. **subsp.** *postampliata* **n.** p. 91 James-Town, HORN Zool. Meded. Mus. Leiden **7**.

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*Ginglymocladus* **gen. n.** p. 2, *discoidea luteicollis*, **spp. n.**, Cal. p. 4, VAN DYKE Bull. Brooklyn Ent. Soc. **13** 1918.

*Lucidina clavareaui* **var. n.** *corporaali* p. 16, PIC Echange **37** 1921.

*Luciola lusitanica*, structure and life history of, p. 29 (figs.), BUGNION Ann. Sci. Nat. (Zool.) (10) **5**.—*L. nicollieri* **sp. n.** Ceylon p. 1 (figs.), BUGNION Spolia Zeylanica **12**.—*L. vittata* Cast. luminosity pp. 1–9, GERRETSEN Biol. Zentralbl. **42**.

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*vicinus* Banguey, *celebensis* Celebes, *elisus* Tonkin, *amplipennis* Saigon, *formosanus* Formosa, *annamitus* Annam p. 7, **spp. n.**, Pic hors-texte Echange **37** 1921.

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*Xylobanus indicus* **sp. n.** India p. 6, Pic Mél. Exot. Ent. **35.**—*X. mocquerysi*, *leonensis*, *donckieri*, *sibutensis*, *atricornis*, *kisibanus* Africa, *ambrensis*, *tananarivanus*, *arcuatithorax*, *angustatus*, *conicus*, *atricolor* Madagascar, *nigricolor* Celebes, *parvulus*, *piceoscutus* p. 14, *testaceoscutus* New Guinea, *semiluteus*, *attenuaticollis*, *sublineatus*, *longus* Java, *martapuranus* Borneo, *flabellicornis*, *fenestratus*, *piceithorax*, *sumatrensis*, *corporaali*, *quinqueareolatus*, *latefenestratus* p. 15, *brevenotatus* Sumatra, *dohertyi* Sula Besi, *angustior*, *testaceipes*, *longissimus* Celebes, *atritarsis*, *notatipes* Lombock, *parallelus* New Guinea, *piceicollis* (with **var. n.** *latithorax*), *javanus*, *testaceus*, *pallidior* Java, *bogorensis* Bogor, *palawanus*, *sinuaticollis* Palawan, *rubrocostatus* Japan, *nigrimembris* Formosa p. 16, *rianganus*, *sericeus*, *diversicollis*, *differens* Sumatra p. 17, **spp. n.**, Pic hors-texte Echange **38.**

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*Pelidnota zikani* Brazil, *glabra* Costa Rica (fig.), *chibchana,* **spp. n.,** Colombia p. 324, Ohaus D. ent. Zs. **1922.**

*Peperonota harringtoni* **var. n.** *obtusa* Tonkin p. 38, BENDERITTER Bull. Soc. ent. France **1922.**

*Philochlaenia, Bolax*] *femoratus* referred to, p. 9, OHAUS Stett. Ent. Zg. **78** 1917.

*Phyllopertha diversa koreana* **subsp. n.** Japan p. 325, OHAUS Stett. Ent. Zeitung **76** 1915.

*Platycoelia burmeisteriana* **nom. n.** for *Pl. burmeisteri* Ohs. p. 53, OHAUS Stett. Ent. Zeitung **78** 1917.

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*Afrasida* **gen. n.** (*Asidinae*), type *caryophyllea* Wiedem. (*Afrasida*) *bergi* **sp. n.** p. 260 pl. i fig. 5 (*Archasida* **subgen. n.**) type *innotata* p. 261 pl. i fig. 7, Cape of Good Hope, *propensa* Natal p. 262, pl. i fig. 6, **spp. n.** (*Asidomachla* **subgen. n.**) type *bicostata* Fähr., *wilmsi* p. 262 pl. i fig. 8, *evanida* pl. i fig. 11, Natal, *leia* Transvaal pl. i fig. 9, p. 263, **spp. n.**, WILKE Arch. Natg. **87** A 12.

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*Anaedus atripes*, Tonkin, *latior* Cochinchina, **spp. n.**, p. 209, PIC Bull. Soc. ent. France **1922.**

*Aptereucyrtus* **gen. n.** (*Cnodalominae*) type *hemichalceus* **sp. n.** Philippine Is. p. 477 pl. i fig. 8, GEBIEN Philippine J. Sci. **19.**

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*Arthrodeis atlanticus* p. 373, *globulosus* p. 375, *uamarensis* p. 376, **spp. n.** Morocco, DE LA ESCALERA Bol. real. Soc. Esp. Hist. nat. Madrid **22.**

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*Camaria viridilineata, multiimpressa, lineatopunctata, bicoloripennis* **spp. n., var.** *viridialternata* **n.** p. 26 *ruficolor, immaculata, leseleuci, striatipennis* Brazil, *bogotensis* Bogota p. 27 *subangulicollis* Bolivia, *bicoloripes* Parana p. 26, **spp. n.**, *Truncatocamaria* **subgen. n.** for *C. spinifer* p. 27, PIC Mélanges Exotico-Entomologiques **35.**

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*Pimelia*, key to *hildebrandti* group of, B.E.A. p. 699, LESNE Voy. M. Rothschild E. Afr. Anim. Art. pt. 2.

*Platolenes spectabilis* **sp n.** Philippine Is. p. 489, GEBIEN Philippine J. Sci. **19.**

*Platycrepis tonkineus* Tonkin, *elongatus*, *minutissimus* Java, *curticollis* Célébes, **spp. n.**, p. 23, PIC Mél. Exot.-Ent. **35.**

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*Praogena interioris* **sp. n.** French Congo p. 59, GEBIEN Ergeb. zweit. deutsch. Zentral-Afr. Exped. **1** 1914.—*P. paulonotata* **sp. n.** E. Africa p. 239, PIC Bull. Soc. ent. France **1922.**

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*Spinoderosphaerus* **gen. n.** *brevicornis* **sp. n.** Tonkin p. 26, PIC Mél. Ex.-Ent. **37.**

*Spinogauromaia* **gen. n.** near *Gauromaia, rufescens* **sp. n.** Tonkin p. 23, PIC Echange **38.**

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*Demoda* **gen. n.** (*Baridinae*) *vittata* **sp. n.** Brazil p. 305, CASEY Mem. Col. **10.**

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*Agaone notabilis* **abs.** *connexa, fasciata* **n.** p. 4 Brazil, AURIVILLIUS Ark. Zool. **14** no. 18.

*Anexamita* **gen. n.** (*Callichrominae*) type *heterocnemis* Gerst. pp. 70, 113, SCHMIDT Arch. Natg. **88** A 6.

*Anisoceraea* **gen. n.** (*Callichrominae*) p. 76, *occidentalis* **sp. n.** Belgian Congo, SCHMIDT Arch. Natg. **88** A 6.

*Anomoderus rugosicollis* **sp. n.** Seychelles p. 486 (fig.), AURIVILLIUS Ann. Mag. Nat. Hist. (9) **10**.

*Anthophilax liebecki* p. 164 *mirificus* p. 165 **spp. n.**, N. America, HOPPING Canad. Entom. **54**.—*A. quadrimaculatus* **sp. n.** Ohio p. 147, CHAMPLAIN & KNULL Ent. News **33**.

*Anubis umtaliensis* Rhodesia p. 140, *methneri, vittatus* Germ. E. Africa p. 143, **spp. n.**, *scalaris* **subsp. n.** *occidentalis* Angola p. 141, SCHMIDT Arch. Natg. **88** A 6.

*Aphrodisium palawanum* **sp. n.** Philippines p. 571 fig., SCHULTZE Phil. J. Sci. **21**.

*Apiogaster femoralis* Kondué, *setosus* Kondué, *sanguinicollis* Spanish Guinea, **spp. n.**, p. 614, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Artimpanza argenteonotata* **sp. n.** Tonkin p. 10, PIC Mélanges Exotico-Entomologiques **37**.

*Atimia huachucae* **sp. n.** p. 148 U.S.A., CHAMPLAIN & KNULL Ent. News **33**.

*Bicon ruficeps* **sp. n.** Laos p. 12, PIC Mélanges Exotico-Entomologiques **37**.

*Bottegia rubra* **sp. n.** p. 160 S. or E. Africa probably, AURIVILLIUS Tijdschr. Ent. **65**.

*Calchaenesthes 6-maculatus* **var. n.** *junctus* p. 27, PIC Echange **38**.

*Callichroma elongatum* Nkolentangan p. 605, *strigosum* Nkolentangan p. 605, **spp. n.**, *carinicolle* a variety of *cranchi* p. 606, *angolense* Angola p. 606, *notaticolle* French Congo p. 606, *schultzei* Fernando Po p. 607, *sibutica* French Congo p. 607, *albitarse* Kamerun p. 607, *interruptum* Kondué p. 608, **spp. n.**, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.—*C. domingoensis* **sp. n.** p. 52 Santo Domingo, FISHER Ent. News. **33**.

*Callimus hoppingi* **sp. n.** Cal. p. 36, VAN DYKE Bull. Brooklyn Ent. Soc. **15** 1920.—*C. testaceus* **sp. n.** India p. 23, PIC Mélanges Exotico-Entomologiques **36**.

*Camelocerambyx* **gen. n.** near *Cosmisoma, singularis* **sp. n.** Laos p. 32, PIC Echange **38**.

*Carinoclytus ater* **sp. n.** Cameroons p. 613, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Cephalizus* **gen. n.** (*Callichrominae*) p. 83, *nobilis* **sp. n.** New Cameroons p. 95, SCHMIDT Arch. Natg. **88** A 6.

*Ceresium* (?) *geniculatum* **sp. n.** Philippine Is. p. 534 pl. i fig. 11, HELLER Philippine J. Sci. **19**.

*Chapaon* **gen. n.** *rufum* **sp. n.** Tonkin p. 24, PIC Mélanges Exotico-Entomologiques **36**.—*C. apicale* **sp. n.** Tonkin p. 10, PIC Mélanges Exotico-Entomologiques **37**.

*Chloridolum pittinum* **sp. n.** New Guinea p. 219, SCHMIDT D. ent. Zs. **1922**.

*Chlorophorus bakeri* p. 4, *dimidiatus, minutus* p. 5, *curvatofasciatus* p. 6, *brevivittatus* p. 7 (figs.) Asiatic Archipelago, **spp. n.**, AURIVILLIUS Ark. Zool. **14** no. 18.—*C. palavanicus* **sp. n.** p. 161 N. Palawan, AURIVILLIUS Tijdschr. Ent. **65**.—*C. brevenotatus, reductus, binhensis*, **spp. n.**, Tonkin p. 13, PIC Mélanges Exotico-Entomologiques **37**.

*Chromacilla* **gen. n.** (*Callichrominae*) p. 84, type *igneicollis* Hope p. 133, *sulcatula* **subsp.** (?) **nov.** *ignifera* Sierra Leone p. 134, SCHMIDT Arch. Natg. **88** A 6.

*Chromalizus* **gen. n.** (*Callichrominae*) type *aureovittis* Kolbe p. 84, *procerus* **sp. n.** Spanish Guinea, *fragrans meinhardti* **subsp. n.** Usambara p. 98, SCHMIDT Arch. Natg. **88** A 6.

*Cloniophorus elongatus* Kondué, *tessmanni* Alén, **spp. n.**, p. 608, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.—*C.* (*Platyclonius* **subgen. n.**), (*Stygnoclonius* **subgen. n.**) p. 123, *glaberrimus* New Cameroons, (*Sceloclonius* **subgen. n.**) p. 124, (*Leptoclonius* **subgen. n.**) *elongatus* Spanish Guinea, (*Cycloclonius* **subgen. n.**) p. 125, *crinitus* Cameroons, (*Paryphoclonius* **subgen. n.**) *kolbei* Mukenge (with **subsp. n.** *strigosus*) p. 126, *vittiger* Cameroons, Spanish Guinea (with **subsp. n.** *rufipes*), **spp. n.**, (*Xestoclonius* **subgen. n.**) p. 127, (*Genoclonius*, *Hyboclonius* **subgenn. n.**) p.128, (*Cloniophorus*) *mechowi* Quedf. **subsp. n.** *ituricus* p. 129, *episcopalis* Chevr. **subsp. n.** *viridanus* p. 130, *chrysaspis* Bat. **subsp. n.** *jordani* Fr. Loango, Congo, *pictus* Cameroons, Spanish Guinea p. 131, (*Oedoclonius* **subgen. n.**) p. 132, **spp. n.**, SCHMIDT Arch. Natg. **88** A 6.

*Closteromerus occidentalis* p. 612, *glabricollis* p. 613, **spp. n.**, Congo, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Clytanthus pacificus* **sp. n.** Pacific Coast p. 38, VAN DYKE Bull. Brooklyn Ent. Soc. **15** 1920.—*C. verbasci* **var. n.** *clermonti* p. 13, PIC Echange **37** 1921.

*Clytus blaisdelli* **sp. n.** Cal. p. 39, VAN DYKE Bull. Brooklyn Ent. Soc. **15** 1920.

*Colobizus* **gen. n.** (*Callichrominae*) p. 73, *seineri*, *bicolor*, *tibiotarsalis* (type), **spp. n.**, Africa p. 90, SCHMIDT Arch. Natg. **88** A 6.

*Compsomera elegantissima* **subsp. n.** *guttalis* N. Lake Nyassa p. 182, SCHMIDT Arch. Natg. **88** A 6.

*Conamblys* **gen. n.** (*Callichrominae*) type *latus* Quedf. p. 78, *auratus*, *punctatissimus* Togo, *caesarius* Liberia, **spp. n.**, p. 172, SCHMIDT Arch. Natg. **88** A 6.

*Coptoeme variabilis* **sp. n.** Congo p. 602, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Ctenomaeus* **gen. n.** (*Callichrominae*) p. 71, *senex* (type) S. Somali, *comosus* N. Lake Nyasa, **spp. n.**, p. 189, SCHMIDT Arch. Natg. **88** A 6.

*Cycloclonius* **subgen. n.** vide *Cloniophorus.*

*Cyrtonops rufipennis* **sp. n.** Tonkin p. 32, PIC Echange **38.**

*Demonax furcifer* p. 9, *angulifascia*, *parallelus* p. 11, *seriatopunctatus* p. 12, *coriaceocollis*, *triaculeatus* p. 13, *quinquecinctus* p. 14, *carinatus* p. 15, *trivittatus*, *octavus* p. 16, *bakeri*, *celebensis* p. 17, *ater*, *biguttatus* p. 18 (figs.), Asiatic Archipelago, **spp. n.**, AURIVILLIUS Ark. Zool. **14** No. 18.—*D. lineatus* **var.** *longeprolongatus* **n.** Tonkin p. 7, PIC Mél. Exot. Ent. **35.**—*D. maximus* **sp. n.** Tonkin p. 25, PIC Mél. Exot. Ent. **36.**

*Dihammaphora bruchi* **sp. n.** p. 19 Argentine, AURIVILLIUS Ark. Zool. **14** No. 18.

*Eburodacrys luederwaldti* **sp. n.** Brazil p. 4, MELZER Not. prelim. Rev. Mus. Paulista **2.**

*Elaphidion albomaculatum* p. 146, *delongi* p. 147, **spp. n.**, Florida, CHAMPLAIN & KNULL Ent. News **33.**

*Encyclops californicus* **sp. n.** Cal. p. 45, VAN DYKE Bull. Brooklyn Ent. Soc. **15** 1920.

*Epania ruficollis* **sp. n.** Laos p. 22, PIC Mél. Exot. Ent. **36.**

*Epipedocera atritarsis* **sp. n.** Tonkin p. 25, PIC Mél. Exot. Ent. **36.**—*E. rufipennis* Tonkin p. 12, *vitalisi*, **spp. n.**, **var.** *longipes* **n.** Laos p. 11, PIC Mél. Exot.-Ent. **37.**

*Eriphosoma* **gen. n.** near *Eriphus* p. 10, *barbiellinii* **sp. n.** p. 11, Brazil, MELZER Not. prelim. Rev. Mus. Paulista **2.**

*Erythrus apicalis* **sp. n.** Annam p. 25, PIC Mélanges Exotico-Entomologiques **36.**

*Eugoides kolbei* Walfisch Bay p. 118, *ulrichi* Germ. E. Africa p. 119, **spp. n.**, SCHMIDT Arch. Natg. **88** A 6.

*Eulitopus* (*Litomeces*), *splendidus* subsp. *maculicollis* Togo, Cameroons p. 162, *gracilis* subsp. *paraplesius* Cameroons, *sphecodes* Cameroon, Spanish Guinea p. 163 (*Eulitopus*) *glabricollis* subspp. *poggei* Mukenge, *tenuoides* Togo, Dahomey p. 164, **subspp. n.** SCHMIDT Arch. Natg. **88** A 6.—*E. congolensis* Kondué p. 610, *purpureus* Cameroons p. 611, *rugosus* Cameroons p. 611, **spp. n.**, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Euporus* (*Sphaleroporus* **subgen. n.**) p. 146, *crucifer* Lunda p. 147, (*Meporus* **subgen. n.**) *kuntzeni* Spanish Guinea p. 148, (*Euporus*) *dubius* Cameroons, Spanish Guinea, *laevis* Cameroons p. 149, *linearis* Gabun, *pygmaeus* W. Ruwenzori **spp. n.**, (*Hintziellus* **subgen. n.**) p. 151, SCHMIDT Arch. Natg. **88** A 6. —*E. gracilis* **sp. n.** Cameroons p. 610, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Evodinus interrogationis* L. **abb.** *apicejunctus* Mongolia, *decem-maculatus* Siberia **n.** p. 114, AURIVILLIUS Norsk Ent. Tidsskr. **1**.

*Eximia finitima, affinis*, **spp. n.** Cameroons, Togo p. 91, SCHMIDT Arch. Natg. **88** A 6.

*Exoparyhus* **gen. n.** (*Callichrominae*) p. 73, *macilentus* (type) p. 158, *janenschi* p. 159, **spp. n.**, Germ. E. Africa, SCHMIDT Arch. Natg. **88** A 6.

*Falsodebilia curtelineata* **sp. n.** Tonkin p. 23, PIC Mél. Exot. Ent. **36**.

*Falsoibidion* **gen. n.** *fasciatum* **sp. n.** Tonkin p. 24, PIC Mél. Exot. Ent. **36**.

*Genoclonius* **subgen. n.** vide *Cloniophorus*.

*Hadromastix* **gen. n.** (*Callichrominae*) type *ruficrus* Gerst. pp. 79, 118, SCHMIDT Arch. Natg. **88** A 6.

*Halme rufofemorata* **sp. n.** Tonkin p. 25, PIC Mél. Exot. Ent. **36**.

*Halmenida* **gen. n.** *purpurea* **sp. n.** Laos p. 11, PIC Mél. Exot. Ent. **37**.

*Hamaticherus garbei* **sp. n.** Brazil p. 4, MELZER Not. prelim. Rev. Mus. Paulista **2**.

*Helymaeus erlangeri* S. Somali p. 186, *togonicus* Togo (with **subsp. n.** *bohndorffi* Njam-Njam) p. 187, **spp. n.**, SCHMIDT Arch. Natg. **88** A 6.

*Hintziellus* **subgen. n.** vide *Euporus*.

*Hippaphesis punctator* varr. *granulifera, unicolor* **varr. n.** Samoa p. 159, SCHWARZER Arch. Natg. **88** A 10.

*Holangus ruficornis* **sp. n.** Tonkin p. 23, PIC Mél. Exot. Ent. **36**.

*Homaloceraea* **gen. n.** (for *Closteromerus* Thoms.) type *scabriuscula* Thoms. p. 76, *claviger* **subspp. n.** *carnotiensis* Beri, Cameroons, *tessmanni* Bosum, Cameroons p. 137, SCHMIDT Arch. Natg. **88** A 6.

*Hospes scutellaris* Kondué, *concentricalis* Nkolentangan, **spp. n.**, p. 612, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.—*H. tomentosus* **sp. n.** Cameroons p. 89, SCHMIDT Arch. Natg. **88** A 6.

*Hyboclonius* **subgen. n.** vide *Cloniophorus*.

*Hybunca* **gen. n.** (*Callichrominae*) type *chrysogramma* Chevr. p. 84, *c.* subspp. *barombana* Cameroons, *hintzi* Cameroons etc., *caliginosa* Mukenge, **subspp. n.**, p. 184, SCHMIDT Arch. Natg. **88** A 6.

*Hypargyra crassipes* **sp. n.** Tanganyika p. 190, SCHMIDT Arch. Natg. **88** A 6.

*Hypomares ater* **sp. n.** Tonkin p. 23, PIC Mél. Exot. Ent. **36**.

*Ibidiomimus* **gen. n.** near *Ibidionidium, bicoloripes* **sp. n.** Tonkin p. 28, PIC Echange **38**.—*I. inapicalis* **sp. n.** Tonkin p. 10, PIC Mél. Exot. Ent. **37**.

*Idobrium*, key to spp., p. 434, *femoratum* Aldabra p. 432, *magnum* Rodriguez, *sechellarum* Seychelles, **spp. n.**, p. 433 (figs.), AURIVILLIUS Ann. Mag. Nat. Hist. (9) **10**.

*Idoemea bicolor* **sp. n.** New Mexico p. 145, CHAMPLAIN & KNULL Ent. News **33**.

*Ionthodes formosa* **subsp. n.** *togonica* Togo, Dahomey p. 180, SCHMIDT Arch. Natg. **88** A 6.—*I. callichromoides* French Congo, *nodicollis* Kondué, **spp. n.**, p. 603, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Ischionorox* **gen. n.** p. 1, *antiqua* **sp. n.** p. 2 Argentine, AURIVILLIUS Ark. Zool. **14** no. 18.

*Leptura aspera parkeri* **var. n.** p. 66, Hippisley Canad. Entom. **54.**—*L. bilineatithorax* **sp. n.** Tonkin p. 22, Pic Mél. Exot. Ent. **36.**—*L. fokiensis* **sp. n.** China p. 7, Pic Mél. Exot. Ent. **35.**—*L. isabellae* p. 162, *swainei, lucifera* p. 163, **spp. n.,** N. America, Hopping Canad. Entom. **54.**—*L. miquelonensis* **sp. n.** St. Pierre & Miquelon p. 11, Pic Echange **37.**—*L. mongolica* **sp. n.** Mongolia p. 18, Pic Echange **38.**—*L. oblongomaculata* **ab. n.** *biparadoxa* Algeria p. 17, Dayrem Misc. Ent. **26.**—*L. pubescens* **ab. n.** *basipuncta* p. 15, Fleischer Casopis **19.**—*L.* (*Anoplodera*) *rufiventris* Gebl. **ab.** *jenseni* **n.** Siberia, Mongolia p. 117, Aurivillius Norsk Ent. Tidsskr. **1.**—*L. scapularis* **sp. n.** Cal. p. 43, Van Dyke Bull. Brooklyn Ent. Soc. **15** 1920.

*Leptoclonius* **subgen. n.** vide *Cloniophorus.*

*Litopus argentatus* Delagoa Bay p. 86, *auricollis* Spanish Guinea p. 88, **spp. n.,** Schmidt Arch. Natg. **88** A 6.—*L. tuberculatus* **sp. n.** Congo p. 612, Hintz Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Luteicenus* **subgen. n.** vide *Purpuricenus.*

*Macromolorchus* **gen. n.** near *Merionaeda, curtipennis* **sp. n.** Tonkin p. 28, Pic Echange **38.**

*Mausarideus atrofasciatus* **sp. n.** Laos p. 32, Pic Echange **38.**

*Mecometacnema* **subgen. n.** vide *Phyllocnema.*

*Mecosaspis chrysina* subsp. *togonica* Togo, *fuscoaenea* subspp. *vossi* Baliland, *coerulea* Cameroons, *auronitens* New Cameroons etc., **subspp. n.,** p. 111, Schmidt Arch. Natg. **88** A 6.—*M. dualensis* Cameroons, *stanleyi* Stanley Falls, **spp. n.** p. 604, Hintz Ergeb. Zweit. Deutsch. Zentral-Afrika Exped. **1** 1919.

*Meporus* **subgen. n.** vide *Euporus.*

*Merionoeda congolensis* **sp. n.** Congo p. 603, Hintz Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.—*M. inapicalis* India, *distinctipes* Tonkin, **spp. n.,** p. 23, Pic Mél. Exot. Ent. **36.**

*Metallichroma excellens konduanum* **subsp. n.** Belgian Congo p. 132, Schmidt Arch. Natg. **88** A 6.

*Metameces* **subgen. n.** vide *Promeces.*

*Metaptola* **subgen. n.** vide *Synaptola.*

*Metaxycnema* **subgen. n.** vide *Phyllocnema.*

*Micromaeus* **gen. n.** (*Callichrominae*) p. 72, *hypocritidus* Jord. **subsp. n.** *nanus* (type) Cameroons p. 185, Schmidt Arch. Natg. **88** A 6.

*Microneomia* **gen. n.** p. 428, *albosignata* p. 429, *glauca* p. 430, *bifasciata* p. 431, *glauca* **ab.** *humeralis* **n.** p. 430 Seychelles, **spp. n.** (figs.), Aurivillius Ann. Mag. Nat. Hist. (9) **10.**

*Microrrhabdium laticeps* **sp. n.** China p. 10, Pic Mél. Exot.-Ent. **37.**

*Neoclytus clitellarius* **sp. n.** Cal. p. 40, Van Dyke Bull. Brooklyn Ent. Soc. **15** 1920.

*Obrium californicum* **sp. n.** Cal. p. 37, Van Dyke Bull. Brooklyn Ent. Soc. **15** 1920.—*O. nitidicolle* **sp. n.** Seychelles p. 435 (fig.), Aurivillius Ann. Mag. Nat. Hist. (9) **10.**

*Odontocera quadrivittata, albitarsis,* **spp. n.,** Brazil p. 9, Melzer Not. prelim. Rev. Mus. Paulista **2.**

*Oedoclonius* **subgen. n.** vide *Cloniophorus.*

*Oemodana binotata* **sp. n.** Cameroons p. 602, Hintz Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Oligosmerus limbalis* Harold, **subspp. n.,** *thoracalis* Germ. E. Africa, *borealis* Somali p. 138, *zenckei* **sp. n.** Germ. E. Africa p. 138, Schmidt Arch. Natg. **88** A 6.

*Ommata signaticollis, flavipes* p. 6, *laticornis,* p. 7, **spp. n.,** Brazil, Melzer Not. prelim. Rev. Mus. Paulista **2.**

*Ophistomis tristis, zikani,* **spp. n.** Brazil p. 5, Melzer Not. prelim. Rev Mus. Paulista **2.**

*Orphnodula* **gen. n.** (*Callichrominae*) p. 81, *argyrosterna* **sp. n.** Germ. E. Africa p. 173, Schmidt Arch. Natg. **88** A 6.

*Orygocera* **gen. n.** (*Callichrominae*) type *fuliginea* Gah. pp. 78, 115, Schmidt Arch. Natg. **88** A 6.

*Oxyprosopus crassus* p. 168, *superbus*, *similis* (with **subsp. n.** *purpurascens* Belgian Congo), Sierra Leone, *calvus* Cameroons p. 169, *fulgens* Togo p. 170, **spp. n.**, *coeruleus* subspp. *atratus* Cameroons, *amethystinus* Dahomey, C. Africa p. 168, *angulicollis* subsp. *cyanipes* Sierra Leone p. 170, **subspp. n.**, SCHMIDT Arch. Natg. **88** A 6.

*Pachyta lamed* **ab. n.** *x-nigrum* Finland p. 89, HELLÉN Notulae Ent. **2.**

*Paryphoclonius* **subgen. n.** vide *Cloniophorus.*

*Pelidnopedilon* **gen. n.** (*Callichrominae*) type *protractum* Bat. p. 75, *grotei* **sp. n.** Germ. E. Africa p. 167, SCHMIDT Arch. Natg. **88** A 6.

*Perissus globithorax* **sp. n.** Tonkin p. 26, PIC Mél. Exot.-Ent. **36.**

*Phasganocnema* **gen. n.** (*Callichrominae*) type *melanianthe* White pp. 81, 173, SCHMIDT Arch. Natg. **88** A 6.

*Philematium stanleyi* Stanley Falls p. 604, *rugosum* Gold Coast p. 605, **spp. n.**, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.—*P. virens* subsp. *amphipatris* Togo p. 105, *currori* subspp. *nigripes* Cameroons, *schultzei* Belgian Congo p. 106, **subspp. n.** SCHMIDT Arch. Natg. **88** A 6.

*Philomeces rusoscapodus* **sp. n.** Cameroons p. 158, SCHMIDT Arch. Natg. **88** A 6.

*Phrosyne brevicornis* **subsp. n.** *orientalis* Germ. E. Africa p. 146, SCHMIDT Arch. Natg. **88** A 6.

*Phyllocnema* (*Phyllocnema*) *gueinzii* White **subsp. n.** *nigrithorax* Germ. E. Africa, (*Phyllometalla* **subgen. n.**) p. 175, (*Metaxycnema* **subgen. n.**) p. 176, (*Mecometacnema* **subgen. n.**) *holubi* Dohrn **subsp. n.** *bifoliata* Germ. E. Africa, *lygaea* Germ. E. Africa, p. 177, *xanthopelma* Tabora p. 178, **spp. n.**, (*Phyllocnemula* **subgen. n.**) p. 179, SCHMIDT Arch. Natg. **88** A 6.

*Phyllocnemula* **subgen. n.** vide *Phyllocnema.*

*Phyllomaeus* **gen. n.** (*Callichrominae*) type *nigricollis* Kolbe p. 71, *n.* **subsp. n.** *tibialis* Germ. E. Africa p. 191, SCHMIDT Arch. Natg. **88** A 6.

*Phyllometalla* **subgen. n.** vide *Phyllocnema.*

*Phymatodes fasciapilosus* p. 33, *funebrus* p. 34, *nigerrimus*, p. 35, **spp. n.**, U.S.A. Pacific Coast VAN DYKE Bull. Brooklyn Ent. Soc. **15** 1920.

*Platyclonius* **subgen. n.** vide *Cloniophorus.*

*Polyzonus testaceipennis* **sp. n.** China p. 8, PIC Mélanges Exotico-Entomologiques **35.**

*Prionomma mindanaona* **sp. n.** Philippines p. 36 (fig.), SCHULTZE D. ent. Zs. **1922.**

*Promeces* (*Promeces*) *longipes* **subsp. n.** *gigas* Germ. S.W. Africa p. 160, (*Metameces* **subgen. n.**) *suturalis* Harold **subsp. n.** *auronitens* Germ. E. Africa, *fülleborni* p. 161, *basalis* p. 162, **spp. n.** N. Lake Nyasa, SCHMIDT Arch. Natg. **88** A 6.

*Pronocera* auctorum, revision of genus, pp. 28–35, BAECKMANN Rev. Russe Ent. **18.**

*Pseudomythodes* **gen. n.** p. 10, *rufipes* **sp. n.** Laos p. 11, PIC Mél. Exot.-Ent. **37.**

*Psilacestes* **gen. n.** (*Callichrominae*) p. 76, type *aureovittatus* Auriv. p. 159, SCHMIDT Arch. Natg. **88** A 6.

*Psilomastix* **gen. n.** (*Callichrominae*) type *cuprea* Fåhrs. p. 79, *tessmanni* **sp. n.** Cameroons, Angola p. 115, SCHMIDT Arch. Natg. **88** A 6.

*Purpuricenus deyrollei* **var. n.** *mediojunctus* p. 4, PIC Echange **37.**—*P. desfontainei* **var. n.** *v-signatus* p. 27, PIC Echange **38.**—*P. diversithorax*, *atromaculatus*, **spp. n.**, Tonkin, *Luteicenus* **subgen. n.** for *atromaculatus* p. 25, PIC Mél. Exot.-Ent. **36.**

*Raphuma connexa* Java, *campanulifera* p. 8 (figs.) Philippines, **spp. n.**, AURIVILLIUS Ark. Zool. **14** No. 18.

*Rhadinomaeus* **gen. n.** (*Callichrominae*) type *rufipes* Fåhrs. pp. 71, 191, SCHMIDT Arch. Natg. **88** A 6.

*Rhopalizarius* **gen. n.** (*Callichrominae*) p. 82, *mildbraedi* **sp. n.** New Cameroons, Spanish Guinea p. 94, SCHMIDT Arch. Natg. **88** A 6.

*Rhopalizida camerunica* **sp. n.** Cameroons p. 96, SCHMIDT Arch. Natg. **88** A 6.

*Rhopalizodes* **gen. n.** (*Callichrominae*) p. 82, type *cinctus* Fåhrs. p. 95, SCHMIDT Arch. Natg. **88** A 6.

*Rhopalizus dorsalis* Kondué p. 609, *plicaticollis* Kondué p. 609, *femoralis* West Africa p. 610, *suturalis* Nkolentangan p. 610, **spp. n.**, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.—*R. howyi* Cameroons p. 92, *schweinfurthi* Bahr-el-Ghasal, *coeruleus* Togo, *tessmanni* p. 93, *laevicollis* p. 94 Cameroons, **spp. n.**, SCHMIDT Arch. Natg. **88** A 6.

*Rhopalomeces* **gen. n.** (*Callichrominae*) type *gracilis* Fåhrs. p. 76, *femoralis*, *delagoanus* p. 153, *discolor*, *rimosus*, *rugatus* p. 154, *minutus*, *elongatus*, *fuscipes* p. 155, *haedus*, *linearis*, *fulgurans*, *caesius* p. 156, **spp. n.** E. Africa, SCHMIDT Arch. Natg. **88** A 6.

*Rosalia alpina* L. occurrence in Spain p. 123, BARNOLA Butl. Inst. Cat. N.H. (2) **2**.

*Sceloclonius* **subgen. n.** vide *Cloniophorus*.

*Semanotus undatus* **ab. n.** 4-*lunatus* Finland p. 88, HELLÉN Notulae Ent. **2**.

*Sphaleroporus* **subgen. n.** vide *Euporus*.

*Sphingacestes* **gen. n.** (*Callichrominae*) p. 76, *thomasi* **sp. n.** Brit. E. Africa p. 159, SCHMIDT Arch. Natg. **88** A 6.

*Stenhomalus sericeus* **sp. n.** Borneo p. 3, AURIVILLIUS Ark. Zool. **14** No. 18.

*Stenopterus ater* **varr. n.** *biskrensis*, *atrorufus* Algeria p. 28, DAYREM Misc. Ent. **26**.—*S. ater* (var. *biskrensis*) = var. *theryi* Pic, p. 66, PIC Misc. Ent. **26**.

*Sternacanthus unifasciatus* **sp. n.** Brazil p. 162, AURIVILLIUS Tijdschr. Ent. **65**.

*Stolidodere aurivillii* **sp. n.** Nkolentangan p. 602, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Strangalia rufovittata* **sp. n.** Tonkin, p. 10, PIC Mél. Exot. Ent. **37**.—*S. aurulenta* **var. n.** *kitanensis*, *distigma* **var. n.** *tala-rahnensis* p. 17, **var. n.** *peyerimhoffi* p. 18 Algeria, DAYREM Misc. Ent. **26**.—*S. aurulenta* (var. *kitanensis*) = var. *lugdunensis* Pic p. 66, PIC Misc. Ent. **26**.

*Stygnoclonius* **subgen. n.** vide *Cloniophorus*.

*Synaptola* (*Metaptola* **subgen. n.** p. 101) *thoracalis* **sp. n.** New Cameroons p. 101, *languida* **sp. n.** Cameroons p. 102, *S.* (*Cumaltera*) *fülleborni* p. 103, *lugens*, **spp. n.**, Lake Nyassa, *tomentosus* **sp. n.** Liberia p. 104, SCHMIDT Arch. Natg. **88** A 6.

*Tarsotropidus* **gen. n.** (*Callichrominae*) type *speciosus* Dalm. p. 78, *nigmanni* **sp. n.** Germ. E. Africa p. 173, SCHMIDT Arch. Natg. **88** A 6.

*Tetraommatus minor* **sp. n.** Tonkin p. 28, PIC Echange **38**.—*T. spinicollis* **sp. n.** Tonkin p. 24, PIC Mél. Exot.-Ent. **36**.

*Thranius granulatus* **sp. n.** Laos p. 11, PIC Mél. Exot. Ent. **37**.—*T. multinotatus* **sp. n.** Tonkin p. 22, PIC Mél. Exot.-Ent. **36**.

*Toxotus superbus* **sp. n.** Tonkin p. 22, PIC Mél. Exot.-Ent. **36**.

*Turanium* **gen. n.** for *T. scabrum* Kraatz p. 32, key to species p. 35, *johannis* **sp. n.** Talas-Alatau Mts. p. 34, BAECKMANN Rev. Russe Ent. **18**.

*Typocerus gloriosus* **sp. n.** U.S.A. p. 166, HOPPING Canad. Entom. **54**.—*T. sinuatus*, biology, U.S.A. p. 27 (3 figs.), WADE Bull. Brooklyn Ent. Soc. **17**.—*T. trimaculatus* **sp. n.** U.S.A. p. 304, CHAMPLAIN & KNULL Ent. News **33**.

*Utopileus* **gen. n.** (*Callichrominae*) p. 84, *aurivillianus* **sp. n.** Sierra Leone p. 165, SCHMIDT Arch. Natg. **88** A 6.

*Vesperus semiobscurus* (with **var. n.** *rufescens*) **sp. n.** Morocco p. 4, PIC Echange **37** 1921.

*Xanthospila kuntzeni* **sp. n.** S. Somali p. 144, SCHMIDT Arch. Natg. **88** A 6.

*Xestoclonius* **subgen. n.** vide *Cloniophorus*.

*Xylotrechus cinereus* **sp. n.** Cal. p. 41, VAN DYKE Bull. Brooklyn Ent. Soc. **15** 1920.—*X. magnificus*, *vitalisi* Laos, *trimaculatus*, *curtithorax* p. 12, *longithorax* p. 13, Tonkin, **spp. n.** PIC Mél. Exot.-Ent. **37**.—*X. ruficollis* **sp. n.** Congo p. 613, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.—*X. signaticollis* **sp. n.** Tonkin p. 8, PIC Mél. Exot.-Ent. **35**.

*Xystrocera pflugfelderi* **sp. n.** Buea p. 602, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Zonopterus rugosus* **sp. n.** p. 160 Assam, AURIVILLIUS Tijdschr. Ent. **65.**—*Z. udei* **sp. n.** Sumatra p. 218, SCHMIDT D. ent. Zs. **1922.**

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*Lamiidae*, key to larvae of Swedish, p. 136, KEMNER Ent. Tidskr. **43.**

*Acridoschema tessmanni* Nkolentangan, *masoni* Congo, **spp. n.** p. 624, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Acronia* ? *alboplagiata* **sp. n.** Philippines p. 573 fig., SCHULTZE Phil. J. Sci. **21.**

*Agelasta violaceicornis* **sp. n.** Philippine Is. p. 540, HELLER Phil. J. Sci. **19.**

*Alphitopola viridecincta* Dahomey, *marmorata* Dahomey, *schultzei* Belgian Congo, **spp. n.** p. 617, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Anancylus vicarius* **sp. n.** Philippine Is. p. 538 pl. 1 fig. 8, HELLER Phil. J. Sci. **19.**

*Anauxesida aureolineata* **sp. n.** Congo p. 629, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Anauxesis kolbei* Spanish Guinea p. 624, *minor* Nkolentangan p. 625, **spp. n.**, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Anisopodus conspersus, consimilis*, **spp. n.** Peru p. 169, AURIVILLIUS Tijdschr. Ent. **65.**

*Apomecyna guttata* p. 627, *brunnea* p. 628, **spp. n.** Congo, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. 1919 **1** 1919.

*Blepisanis trivittata* p. 635, *cyanea* p. 636, **spp. n.** Cameroons, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Calothyrza speyeri* **sp. n.** Cameroons, p. 623, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Centrura subaequalis* **sp. n.** S.E. Indies p. 162, AURIVILLIUS Tijdschr. Ent. **65.**

*Ceroplesis acutipennis* Belgian Congo p. 621, *leonensis* Sierra Leone p. 621, *haroldi* Cameroons p. 622, **spp. n.**, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Chreonoma atricornis* **sp. n.** Tonkin p. 15, PIC Mél. Exot.-Ent. **37.**—*C. cavernifera* **sp. n.** p. 172. N. Palawan, AURIVILLIUS Tijdschr. Ent. **65.**—*C. tibialis* **sp. n.** Saigon p. 11, PIC Echange **37** 1921.

*Chydaeopsis ruficollis* **sp. n.** p. 25 (fig.) Borneo, AURIVILLIUS Ark. Zool. **14** No. 18.

*Coptops subfasciatus* **sp. n.** Tonkin p. 26, PIC Mél. Exot.-Ent. **36.**

*Cylindrosybra* **gen. n.** *albomaculata* **sp. n.** p. 166 Solomon Islands, AURIVILLIUS Tijdschr. Ent. **65.**

*Daphisia nigra* p. 26, *fasciolata* p. 27 (fig.) Borneo, **spp. n.**, AURIVILLIUS Ark. Zool. **14** No. 18.

*Dichostates rothkirchi* Cameroons p. 625, *fasciculatus* Uganda p. 626, *maculatus* Congo da Lemba p. 626, **spp. n.**, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Didymonychini*, **trib. n.** *Didymonycha* **gen. n.** p. 31, *singularis* **sp. n.** p. 32 (figs.) Peru, AURIVILLIUS Ark. Zool. **14** No. 18.

*Docus albopictus* **sp. n.** Kondué p. 625, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Doliops humerosus* **sp. n.** pl. 2 fig. 2 and **var. n.** *subfasciatus* p. 536 Philippine Is., HELLER Phil. J. Sci. **19.**—*D. multifasciata* **sp. n.** Philippines p. 572 fig., SCHULTZE Phil. J. Sci. **21.**

*Dorcadion bureši* **sp. n.** Bulgaria p. 1 figs., ŠTEŘBA Časopis **19.**

*Driopea setosa, delta* p. 23, *cyrtomera* p. 24 (figs.) Borneo, Sumatra, Malacca, **spp. n.**, AURIVILLIUS Ark. Zool. **14** No. 18.

*Ecphora distincta* **sp. n.** French Congo p. 638, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Enaretta conifera* **sp. n.** p. 21 Tanganyika Territory, AURIVILLIUS Ark. Zool. **14** No. 18.—*E. fasciculata* **sp. n.** Cameroons p. 628, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Eryssamena albonotata, lineaticollis, indentata,* **spp. n.** Tonkin p. 26, Pic Mél. Exot.-Ent. **36**; *E. undulata* **sp. n.** Tonkin p. 14, Pic Mél. Exot.-Ent. **37.**

*Euclea gloriosa* **sp. n.** Philippines p. 571 fig., Schultze Phil. J. Sci **21**; *E. pulchella* **sp. n.** Mindanao p. 36 (fig.), Schultze D. ent. Zs. **1922.**—*E. tagala* var. *tricolor* **var. n.** Philippine Is. p. 540, Heller Phil. J. Sci. **19.**

*Eudryoctenes togonicus* **sp. n.** Togo p. 629, Hintz Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Eunidia philippinarum* **sp. n.** p. 21 Mindanao, Aurivillius Ark. Zool. **14** No. 18.

*Exocentrus plagiatus* Congo p. 630, *nigricollis* p. 630, *femoralis* p. 630, *armatus* p. 630, *ruficornis* p. 631, *marmoratus* p. 631, *maculatus* p. 631, *albostriatus* p. 631, Cameroons, **spp. n.**, Hintz Ergeb. Zweit. Deutsch. Zentral-Afrika - Exped. **1** 1919.—*E. seriatopunctatus* **sp. n.** p. 167 Key Isl. and N. Palawan, Aurivillius Tijdschr. Ent. **65.**

*Glenea aerata* **sp. n.** p. 25 Borneo, Aurivillius Ark. Zool. **14** No. 18. —*G. albopunctata* **subsp. n.** *kamerunensis, gebieni* **sp. n.** Cameroons p. 632, Hintz Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.—*G. caraga* fig. 3, *scalaris* fig. 4 p. 541, pl. ii, **spp. n.** Philippine Is., Heller Phil. J. Sci. **19.**—*G. minerva* **sp. n.** p. 171 N. Palawan, Aurivillius Tijdschr. Ent. **65.**

*Hecyrida uniformis* **sp. n.** Tonkin p. 14, Pic Mél. Exot.-Ent. **37.**

*Hemicryllis* **gen. n.** p. 28, *alboguttata* **sp. n.** p. 29 (fig.) Singapore, Aurivillius Ark. Zool. **14** no. 18.

*Herophila tristis* **varr. n.** *divisa, obliterata, interrupta, posticalis* p. 5, Pic Echange **37** 1921.

*Heteroclytomorpha davaona* **sp. n.** Philippine Is. p. 538 pl. 2 fig. 5, Heller Phil. J. Sci. **19.**

*Imalmus fasciatus* **sp. n.** Congo p. 617, Hintz Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Ischnia plagiata* **sp. n.** Cameroons p. 622, Hintz Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Lagrida aenea* **sp. n.** Nkolentangan p 626, Hintz Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Latisternum* (?) *lunulatum* **sp. n.** Kondué p. 623, Hintz Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Leptostylus floridanus* **sp. n.** Florida p. 148, Champlain & Knull Ent. News **33.**

*Leiopus maculipennis* **sp. n.** Florida p. 31, Blatchley Canad. Entom. **54.**

*Liopus barbarus* **sp. n.** Cal. p. 45, Van Dyke Bull. Brooklyn Ent. Soc. **15** 1920. —*L. kuntzeni* **sp. n.** Nkolentangan p. 629, Hintz Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Lychrosis rufipennis* **sp. n.** Tonkin p. 14, Pic Mél. Exot.-Ent. **37.**

*Lypsimena brasiliensis* **sp. n.** p. 164 Brazil, Aurivillius Tijdschr. Ent. **65.**

*Mahenes* **gen. n.** p. 442, *semifasciata* **sp. n.** Seychelles p. 443 (fig.), Aurivillius Ann. Mag. Nat. Hist. (9) **10.**

*Menesia testaceipennis* **sp. n.** Tonkin p. 26, Pic Mél. Exot. Ent. **36.**

*Menesida carinifrons* **sp. n.** p. 29 (figs.) Borneo, Aurivillius Ark. Zool. **14** No. 18.

*Mesosa sericea* vide *Pertyia.*

*Mesosa unifasciata* **sp. n.** Tonkin p. 26, Pic Mél. Exot. Ent. **36.**

*Metopides occipitalis* **var.** *cordata* **n.** p. 162 Sumatra, Aurivillius Tijdschr. Ent. **65.**

*Micromulciber ochrosignatus* **sp. n.** Philippine Is. p. 539, pl. 2 fig. 1, Heller Phil. J. Sci. **19.**

*Mimecyrida* **gen. n.** p. 438, *fasciculata* **sp. n.** Rodriguez p. 439 (fig.), Aurivillius Ann. Mag. Nat. Hist. (9) **10.**

*Moecha bifasciata* **sp. n.** Cameroons p. 622, Hintz Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Monochamus* pp. 252–258, figs. of Amer. spp. Hopping Canad. Ent. **53.**—*M.* (*Monohammus*) *albosignatus* **sp. n.** Cameroons p. 615, Hintz Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919. —*M. kinganus* China, *griseonotatus* Japan **spp. n.** p. 6, Pic Echange **37** 1921.

*Nitocris kolbei* Congo p. 636, *schubotzi* French Congo p. 636, *ichneumon* Molundu p. 637, *rubriventris* Congo p. 637, *plicata* Congo p. 638, **spp. n.**, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Nupserha melanoscelis* **sp. n.** p. 30 Mindanao, AURIVILLIUS Ark. Zool. **14** No. 18.—*N. nigerrima* Cameroons p. 633. *ventralis* French Congo p. 634, **spp. n.**, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Nyctimene ochraceovittata* **sp. n.** p. 19 Philippines, AURIVILLIUS Ark. Zool. **14** No. 18.—*N. palavanica* **sp. n.** p. 162 N. Palawan, AURIVILLIUS Tijdschr. Ent. **65.**

*Oberea auricollis* **sp. n.** p. 172 N. Palawan, AURIVILLIUS Tijdschr. Ent. **65.**—*O. flavocephala* **sp. n.** Florida p. 32, BLATCHLEY Canad. Ent. **54.**—*O. subspinosa* **sp. n.** China p. 28, PIC Echange **38.**

*Obereopsis longicornis* p. 634, *flavipes* p. 634, *adusta* p. 635, *monticola* p. 635, **spp. n.** Cameroons, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Olenecamptus interruptus* **sp. n.** Tonkin p. 14, PIC Mél. Exot. Ent. **37.**

*Oncideropsidini* **trib. n.** *Oncideropsis* **gen. n.** *nebulosa* **sp. n.** p. 165 Bombay, AURIVILLIUS Tijdschr. Ent. **65.**

*Onychoglenea* **gen. n.** *brunnea* **sp. n.** p. 28 Mindanao, AURIVILLIUS Ark. Zool. **14** No. 18.

*Ossonis hirsutipes* **sp. n.** p. 30 (fig.) Borneo, AURIVILLIUS Ark. Zool. **14** No. 18.

*Oxyhammus griseotinctus* **sp. n.** Cameroons p. 615, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Ozineus dimidiatus* p. 169, *dubius* p. 170 **spp. n.** Peru, AURIVILLIUS Tijdschr. Ent. **65.**

*Pertyia* **gen. n.** for *Mesosa sericea* Pert. p. 22, AURIVILLIUS Ark. Zool. **14** No. 18.

*Phosphorus bibundiensis* **sp. n.** Cameroons p. 619, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Phytoecia atripes* **sp. n.** China p. 8, PIC Mél. Exot. Ent. **35.**—*P. obscurithorax* **sp. n.** China p. 27, PIC Mél. Exot. Ent. **36.**

*Planodes simplicicornis* **sp. n.** Philippine Is. p. 537 pl. i fig. 13, HELLER Phil. J. Sci. **19.**

*Plerodia conspersa* **sp. n.** p. 164 Brazil. AURIVILLIUS Tijdschr. Ent. **65.**

*Poemenesperus tessmanni* Spanish Guinea, *lyrifer* Alén **spp. n.** p. 620, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Pogonocherus pilatei* **sp. n.** Calif. p. 46, VAN DYKE Bull. Brooklyn Ent. Soc. **15** 1920.

*Prosopocera umbrina, ferranti, signata,* **spp. n.**, Kondué p. 616, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Pseudanaestetis* **gen. n.** *langana* **sp. n.** Tonkin p. 15, PIC Mél. Exot. Ent. **37.**

*Pterolophia instabilis* **sp. n.** p. 439, **abb. n.** p. 440 Seychelles (fig.), AURIVILLIUS Ann. Mag. Nat. Hist. (9) **10.**

*Rhytiphora blackburni* **sp. n.** p. 163 West Australia, AURIVILLIUS Tijdschr. Ent. **65.**

*Rondibilis lateralis* p. 166, *octomaculata* p. 167 N. Palawan **spp. n.**, AURIVILLIUS Tijdschr. Ent. **65.**

*Saperda perforata* **ab. n.** *cinerascens* Finland p. 90, HELLÉN Notulae Ent. **2.**

*Serixia subaurea* **sp. n.** p. 170, **ab.** *niveiventris* **n.**, *argentea* **sp. n.** p. 171 N. Palawan, AURIVILLIUS Tijdschr. Ent. **65.**—*S. tonkinea* **sp. n.** Tonkin p. 14, PIC Mél. Exot. Ent. **37.**

*Sophronica musae* **sp. n.** Cameroons p. 628, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Sternotomis flavomaculata* **sp. n.** Cameroons p. 618, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Synnupserha rothkirchi* p. 632, *carinicollis* p. 633, *variicornis* p. 633, *monticola* p. 633, **spp. n.** Cameroons, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Tetraglenes crassicornis* **sp. n.** Cameroons p. 629, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Theticus montium* Fernando Po p. 626, *lunulatus, compactus* Nkolentangan p. 627, **spp. n.**, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Tragocephala schultzei* Congo p. 619, *longicornis* Cameroons p. 620, **spp. n.**, HINTZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1919.

*Xenapta humeralis* **sp. n.** p. 168 N. Palawan, AURIVILLIUS Tijdschr. Ent. **65.**

*Zosne cachila* **sp. n.** Philippine Is. p. 535, pl. i fig. 12, HELLER Phil. J. Sci. **19.**

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*Bruchus affinis* **var. n.** *albolutens* France p. 25, CHOBAUT Misc. Ent. **26.**—*B.* (*Callosobruchus*) *atrolineatus* **sp. n.** Egypt p. 15, PIC Echange **37** 1921.—*B. breveapicalis* Trinidad, *rugulosus* Mindanao, *celebensis* Celebes **spp. n.**, p. 15, PIC Mél. Exot. Ent. **35.**—*B.* (*C.*) *sulcaticollis* East Africa, *pulcher* Luzon, **spp. n.**, p. 15, PIC Mél. Exot. Ent. **35.**

*Diegobruchus mauritii* Pic Bull. Mus. Paris 1907, figs. in Voy. M. Rothschild E. Afr. Anim. Art. pt. 2.

*Pseudeurostus dyris* **sp. n.** Morocco p. 61, PEYERIMHOFF Bull. Soc. ent. France **1922.**

*Spermophagus diversipes* Penang, *testaceus* Trinidad, **spp. n.**, *simoni* **var.** *immaculatus* **n.** Palawan p. 16, PIC Mél. Exot.-Ent. **35.**

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*Donacia* spp. mouth parts and reproductive organs of, p. 208 (figs.), ISCHREYT Ent. Mitt. **11.**—*D. assimilis* Lacordaire, *D. glabrata* Schffr. synonym of, p. 117, SCHAEFFER Bull. Brooklyn Ent. Soc. **15** 1920.—*D. obscura* Gyll. **var.** (morpha ? ) *barovskyi* **n.** G. Jacobs Russia p. 54, BAROVSKI Rev. Russe Ent. **18.**

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*Antonaria suturella* **sp. n.** Belgian Congo p. 157, WEISE Ergeb. zweit. deutsch. Zentral-Afr. Exped. **1** 1915.

*Colobaspis aeneipennis* **sp. n.** Belgian Congo p. 159, WEISE Ergeb. zweit. deutsch. Zentral-Afr. Exped. **1** 1915.—*C. bicoloriceps* Laos, *vitalisi* Tonkin, **spp. n.**, p. 8, PIC Mél. Exot. Ent. **37.**

*Sphondylia barbipes* **sp. n.** Belgian Congo p. 158, WEISE Ergeb. zweit. deutsch. Zentral-Afr. Exped. **1** 1915.

*Temnaspis bidentatus* **sp. n.** Assam p. 27, PIC Mél. Exot. Ent. **36.**—*T. laosensis* **sp. n.**, *downesi* **var.** *inlineatus* **n.** Laos p. 7, PIC Mél. Exot. Ent. **37.**

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*Orsodacna cerasi* F. **ab. n.** *suturalis* G. Jacobs Russia p. 54, BAROVSKI Rev. Russe Ent. **18.**

*Pedrillia luzonica* **sp. n.** p. 429 Philippines, WEISE Philipp. Jl. Sci. **21.**

*Zeugophora flavicollis*, biology of, p. 405, URBAN D. ent. Z. **1922.**

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*Manobia propria* **sp. n.** p. 119 Banguay, WEISE Tijdschr. Ent. **65.**

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*Euponera laevigata* F. Smith **var.** *whelpleyi* **n.** Caparo p. 3, WHEELER Amer. Mus. Novit. **45.**—*E. ingesta* p. 82, *subiridescens* p. 83, **spp. n.** Congo (figs.) WHEELER Bull. Amer. Mus. Nat. Hist. **45.**—*E.* (*Brachyponera*) *sennaarensis* **var. n.** *ruginota* Cameroons p. 372, STITZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1916.—*E.* (*Trachymesopus*) *cauta* **sp. n.** Honduras p. 8, MANN Proc. U. S. Nat. Mus. **61** Art. 13.

*Forelius nigriventris* **varr. n.** *transiens, modesta breviscapis* **var. n.** *pusilla* p. 374, *chalybaeus* **varr. n.** *personata basalis* p. 375 Argentine, SANTSCHI Bul. Soc. Sci. Lausanne **54.**

*Formica* (*Proformica*) *flavosetosa* **sp. n.** China p. 215, VIEHMEYER Arch. Natg. **88** A 7.

*Hendecapheidole* **subgen. n.** v. *Pheidole.*

*Iridomyrmex conifer, exsanguis* ♂ ♂ described p. 26, CRAWLEY Ann. Mag. Nat. Hist. (9) **10.**

*Lasius bicornis* **varr. n.** *citrina* p. 12, *neapolitana* p. 13 Italy, *umbratus* **var. n.** *viehmeyeri* Morea p. 13, and review of *umbratus* group, EMERY Bol. Soc. Ent. Ital. **54.**

*Leptogenys neutralis* ♀ described Australia, p. 434, CRAWLEY Ann. Mag. Nat. Hist. (9) **9.**—*L. stuhlmanni* subsp. *camerunensis* **var.** *opalescens* **n.** p. 94, *ergatogyna* **sp. n.** p. 95 Congo (fig.) WHEELER Bull. Amer. Mus. Nat. Hist.

**45.**—*L.* (*Leptogenys*) *gagates*, *donisthorpei*, **spp. n.** Honduras figs. p. 11, MANN Proc. U. S. Nat. Mus. **61** Art. 13. —*L.* (*Lobopelta*) *honduriana* p. 13, *rufa* p. 14, *imperatrix* p. 15 **spp. n.** Honduras figs. MANN T.c.—*L.* (*Lobopelta*) *kitteli siemsseni* **subsp. n.** China p. 204, VIEHMEYER Arch. Natg. **88** A 7.

*Leptothorax müllerianus* **sp. n.** Italy p. 118, FINZI Bul. Soc. Ent. Ital. **53.** —*L. minozzii* **nom. nov.** for *L. silvestri* Minozzi *nec* Sants. p. 68, SANTSCHI Bull. Soc. Hist. Nat. Afr. N. **13.**—*L. rottenbergi* Em. st. *annibalis* **var.** *herculea* **n.** p. 66, SANTSCHI Bull. Soc. Hist. Nat. **13.**—*L. silvestrii* **sp. n.** Calabria p. 27, MINOZZI Boll. Lab. Zool. Portici **15** 1921.—*L. ibericus* **sp. n.** Spain p. 329, MINOZZI Bol. real. Soc. Esp. Hist. nat. Madrid **22.**—*L. sculptiventris* **var.** *distincta* **nov.** South America p. 85, CRAWLEY Ent. Rec. **34.**

*Lophomyrmex 4-spinosus* **var. n.** *opaciceps* p. 211, VIEHMEYER Arch. Natg. **88** A 7.

*Macromischa scandens* **sp. n.** Honduras fig. p. 30, MANN Proc. U. S. Nat. Mus. **61** Art. 31.

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*Melophorus pilosulus*, *uxorius* **spp. n.** Chili p. 93, and list of species, EMERY Rend. Acc. Sci. Bologna **26.**

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*Myrmecia lutea* **sp. n.** p. 429, *harderi* **st.** *swalei* **n.** p. 429, *chasei* **var.** *ludlowi* **n.** p. 431, *michaelseni* **var.** *perthensis* **n.** p. 431, *clarki* **sp. n.** 432 Australia, CRAWLEY Ann. Mag. Nat. Hist. (9) **9.**—*M. gulosa* **var. n.** *obscurior* Australia p. 87, FOREL Rev. Suisse Zool. **30.**

*Myrmecinella* **gen. n.** *panamana* **sp. n.** Panama p. 1 (figs.), WHEELER Amer. Mus. Novit. **46.**

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*Myrmelachista reichenspergeri*, *elata* **spp. n.** Brazil p. 376, SANTSCHI Bul. Soc. Sci. Lausanne **54.**

*Myrmica chinensis*, *helleri*, **spp. n.** China p. 204, VIEHMEYER Arch. Natg. **88** A 7.—*M. punctiventris* **var. n.** *isfahani* U.S.A. p. 92, FOREL Rev. Suisse Zool. **30.**

*Myrmicaria arachnoides* varr. *lutea* (and male), *luteiventris* females described p. 207, VIEHMEYER Arch. Natg. **88** A 7.—*M. salambo* **sp. n.** p. 147, *exigua* **subsp. n.** *kisangani* **n.** p. 148 Congo (figs.) WHEELER Bull. Amer. Mus. Nat. Hist. **45.**

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*Odontomachus assiniensis* **var. n.** *fuscus* Belgian Congo p. 372, STITZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1916.—*O. assiniensis* **var.** *tropicalis* **n.** p. 352 Principe Isld., MINOZZI Ann. Museo Civ. Genova Ser. 3, **9** (**49**).—*O. assiniensis* **var.** *furvior* p. 101, **var.** *aterrimus, haematoda* **varr.** *stanleyi* p. 102 **varr. n.** Congo, WHEELER Bull. Amer. Mus. Nat. Hist. **45.**—*O. coriarius* **var.** *obscura* **n.** Australia p. 437 (fig.) CRAWLEY Ann. Mag. Nat. Hist. (9) **9.**—*O. haematoda* Linn. **subsp.** *dulcis* **n.** Honduras p. 18, MANN Proc. U. S. Nat. Mus. **61** Art. 13.

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*Pheidole ampla perthensis* **st. n.** W. Australia p. 24, CRAWLEY Ann. Mag. Nat. Hist (9) **10.**—*P. vinelandica* **var. n.** *nebrascensis* Nebraska p. 92, FOREL Rev. Suisse Zool. **30.**—*P. platycephala* **sp. n.** Belgian Congo p. 380, fig. 3, STITZ Ergeb. Zweit. Deutsch. Zentral-Afrika-Exped. **1** 1916.—*P. lacerta* p. 6, *tenerescens,* **spp. n.** Port of Spain p. 7, WHEELER Amer. Mus. Novit. **45.**—*P.* **subgen. n.** *Hendecapheidole* p. 3, *emersoni* **sp. n.** Brit. Guiana p. 4 (figs.), WHEELER Amer. Mus. Novit. **46.**—*P. saxicola* p. 138, *niapuana* p. 136, *mylognatha* p. 134, *batrachorum* p. 128 **spp. n.,** *caffra* **subsp.** *bayeri* **var.** *thysvillensis* **n.,** *caffra* **subsp.** *senilifrons* **n.** p. 130, *minima* **subsp.** *malelana* **n.** p. 133 (figs.), WHEELER Bull. Amer. Mus. Nat. Hist. **45.**—*P. walkeri* **sp. n.** Honduras fig. p. 27, MANN Proc. U.S. Nat. Mus. **61** Art. 13.—*P.* (*Elasmopheidole*) *hondurensis* **sp. n.** Honduras figs. p. 25, MANN T.c.

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*Ponera perplexa* **sp. n.** Honduras p. 8, MANN Proc. U. S. Nat. Mus. **61** Art. 13.

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*Afrida purulha* **sp. n.** p. 350 Guatemala, SCHAUS Proc. U. S. Nat. Mus. **59.** —*A. exegens* **sp. n.** Mexico p. 8, DYAR Insecutor Inscit. Menstr. **10.**

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*Amphidrina callicora* **sp. n.** B.E.A. p. 408 (fig.), LE CERF Voy. M. Rothschild E. Afr. Anim. Art. pt. 1.

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*Bocana pallidisigna* **sp. n.** Ceram p. 247, PROUT Bull. Hill Mus. **1**.

*Bocula lophoproctis* **sp. n.** Dutch New Guinea p. 192, HAMPSON Bull. Hill Mus. **1**.

*Borolia pumilio* Madagascar p. 116, *acutangulata* Natal p. 117, *rufescens* E. Africa, **spp. n.**, *baziyae* Möschl. transferred to *Torrentium* Guen., *B. tincta* Wlk. transferred to *Cirphis* Wlk. p. 118, *uncinatus* **nom. n.** for *melianoides* Hmps. (nec Möschler) p. 117, GAEDE Ent. Zeitung **77** 1916.—*B. melianoides* ab. *mediofusca*; *tacuna* ab. *bipunctata*;

*linita* ab. *punctata; sarcostriga* ab. *pallidior; fasciata* ab. *yatungensis*, **abb. n.**, p. 31, STRAND Arch. Natg. **82** A 2.

*Bryophila dusentrei* **sp. n.** Morocco p. 232, OBERTHUR Etudes Lép. **19** pt. 1.

*Bryophilopsis griseata* ab. *punjabi* **ab. n.** p. 85, STRAND Arch. Natg. **82** A 1 1917.

*Bryothripa miophaea* ab. *transvaalensis* **ab. n.** p. 84, STRAND Arch. Natg. **82** A 1 1917.

*Calamia phragmitidis* **f.** *maculata* **n.** Schleswig-Holstein p. 93, WARNECKE Neue Beitr. system. Insektenk. **2.**

*Callopistria insularis* **abb. n.** *carnepicta, olivaceopicta* p. 87, STRAND Arch. Natg. **82** A 2.

*Caloplusia virgula* **ab. n.** *v-signata* p. 47, STRAND Arch. Natg. **82** A 2 1917.

*Calpe hokkaida* **sp. n.** Hokkaido p. 198, WILEMAN Entomologist **55.**

*Caradrina alsinides* **sp. n.** p. 98 Italy, COSTANTINI N. Beiträge system. Insektenk. **2.**

*Cardiosace parilis* **abb. n.** *parilana, parilella* p. 37, STRAND Arch. Natg. **82** A 2 1917.

*Carea varipes* **subsp.** *leucobathra* **n.** p. 217, *costiplaga* **subsp.** *defuscata* **n.** p. 218, *perspicua, caroli* p. 219, *felix* **spp. n.**, p. 220, **ab.** *carneipennis* **n.** *josephi* **sp. n.** Ceram p. 221, PROUT Bull. Hill Mus. **1.**—*C. subtilis* abb. *subtilella, subtilodes* p. 90, *subtilana, suffusa; chlorostigma* abb. *borneonis, sikkimensis; annae* abb. *ochreobrunnea, prominens; biviata* ab. *virilis; tarica* ab. *fakfakensis; vexilla* ab. *devittata* p. 91, **abb. n.**, STRAND Arch. Natg. **82** A 1 1917.

*Casandria mythias*, **sp. n.**, Guatemala p. 369, SCHAUS Proc. U. S. Nat. Mus. **59.**

*Catada alboapicalis minuens*, **subsp. n.** Ceram p. 244, PROUT Bull. Hill Mus. **1.**—*C. tausigna* **ab. n.** *bhutanica* p. 88, STRAND Arch. Natg. **82** A 2.

*Catephia corticea* p. 424 (fig.) **ab.** *diffusa* **n.** B. E. A. p. 426 (fig.), LE CERF Voy. M. Rothschild E. Afr. Anim. Art. pt. 1.

*Catocala orion* **sp. n.** Alberta p. 288, CURRAN Canad. Ent. **1922.**—*C. andromedae* p. 114, *gracilis* p. 116, *sordida* p. 118, *herodias* p. 138, *praeclara* p. 139, early stages of, N. America; *sordida metalomus, gracilis cinerea* **ff. nov.** N.J. p. 142, MAYFIELD Bull. Brooklyn Ent. Soc. **17.**—*C. sponsa* **var. n.** *purpurea* Morocco p. 265, OBERTHUR Etudes Lép. **19** pt. 1.—*C. sponsa* **abb.** *fortis, obscura* **n.** Bosnia and Herzegovina p. 158, SCHAWERDA Beitr. Verh. Zool. Bot. Ges. **71.**—*C. ulalume* Streck., distinct sp. p. 233, FRENCH Ent. News **33.**—*C.* notes on aberrations of N. American species named by Strand p. 100, MCDUNNOUGH Canad. Entom. **54.**—*C. ulalume* and *lacrymosa*, larvae compared, p. 234, BROWER Ent. News **33.**—*C. tristis, gracilis* food plant of, N.J. p. 103, RUMMEL Bull. Brooklyn Ent. Soc., **14** 1919.

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*Cerynea trichobasis* ab. *limbobrunnea* p. 33; *endotrichalis* ab. *capensis* p. 34 **abb. n.**, STRAND Arch. Natg. **82** A 2 1917.

*Chabuata endiva vespera* **form n.** Ariz. p. 71, BARNES & LINDSEY Bull. Brooklyn Ent. Soc. **17.**

*Chalciope hyppasia* abb. *bougainvillensis, hyppasiana; cephise* ab. *cephisoides* **abb. n.** p. 40, STRAND Arch. Natg. **82** A 2 1917.

*Chandica lobophorina* **sp. n.** Ceram p. 216, PROUT Bull. Hill Mus. **1.**

*Characoma excurvata* **sp. n.** Ceram p. 212, PROUT Bull. Hill Mus. **1.**——*C. vallata* ab. *basiatra; nolotica* ab. *submediana; glaucopasta* ab. *perakensis* **abb. n.** p. 81, STRAND Arch. Natg. **82** A 1 1917.—*C. stictigrapta* **ab. n.** *stictigraptella* p. 8, STRAND Arch. Natg. **82** A 3.

*Charadra deridens* ab. *nigrosuffusa; nigracreta* ab. *nigracretana*, **abb. n.** p. 46, STRAND Arch. Natg. **82** A 2 1917.

*Chloridea obsoleta* attraction of to corn plant, Kansas p. 333, MCCOLLOCH Jl. Econ. Ent. Geneva **15.**

*Chlorothrix zothecaea* Dyar vide *Dipinacia schiniodes* Dognin.

*Chlorozada metaleuca* **abb. n.** *metaleucana, purpureofusca, olivaceoviridis* p. 90, STRAND Arch. Natg. **82** A 1 1917.

*Chlumetia lichenosa* ab. *medioalba* **ab. n.** p. 73, STRAND Arch. Natg. **82** A 1 1917.

*Churia maculata* **ab. n.** *costalis* p. 92, STRAND Arch. Natg. **82** A 1 1917.

*Chytonix sensilis* **f. n.** *macdonaldi* U.S.A. p. 196, BENJAMIN Canad. Entom. **54.**

*Cirphis velva, macoya, chejela,* **spp. n.,** Guatemala p. 360, SCHAUS Proc. U. S. Nat. Mus. **59.**—*C. albimacula* **sp. n.** E. Africa p. 116 (fig.), GAEDE Ent. Zeitung **77** 1916.—*C. micacea* **var. n.** *travancorica* p. 87, STRAND Arch. Natg. **82** A 2.—*C. pseudargyria* ab. *derufata* p. 30; *adjuncta* abb. *adjunctoides, adjunctella; albicosta* ab. *uniformis; flavostigma* ab. *ochracea; insulicola* ab. *gambiensis* p. 31, **abb. n.,** STRAND Arch. Natg. **82** A 2 1917.

*Cirrhoedia xerampelina* **ab.** *nigropicta* **n.** Herzegovina and Bosnia p. 156, SCHAWERDA Beitr. Verh. Zool. Bot. Ges. Wien **71.**

*Clytie arenosa* **ab. n.** *arenosana* p. 45, STRAND Arch. Natg. **82** A 2 1917.

*Colbusa euclidica* **ab. n.** *postlutea* p. 39, STRAND Arch. Natg. **82** A 2 1917.

*Copicucullia jemezensis* **sp. n.** New Mexico p. 167, DYAR Insecutor Inscit. Menstr. **10.**

*Corgatha laginia* p. 119, *tenuilineata, crassilineata* Cameroons p. 120 (figs.), **spp. n.,** GAEDE Ent. Zeitung **77** 1916.

*Cortyta dispar* abb. *disparoides, disparella; vetusta* ab. *pallidior; rosacea* ab. *nigrapex,* **abb. n.** p. 46, STRAND Arch. Natg. **82** A 2 1917.

*Cosmophila bidentata* **ab. n.** *purpureobrunnescens* p. 8, STRAND Arch. Natg. **82** A 3.

*Cretonia ethiopica* **ab. n.** *obsoletimacula* p. 34, STRAND Arch. Natg. **82** A 2 1917.

*Cropia dimorpha* Dyar vide *Polionycta apicata* Hamps.

*Cryptocala* **gen. n.** for *Agrotis gilvipennis* Grt. p. 133, BENJAMIN Bull. S. Cal. Acad. Sci. **20.**

*Cryptothripa polyhymnia* abb. *polyhymniana, polyhymniodes* **abb. n.** p. 84, STRAND Arch. Natg. **82** A 1 1917.

*Cucullia nanuscula* **sp. n.** New Mexico p. 168, DYAR Insecutor Inscit. Menstr. **10.**

*Decticryptis deleta* **ab. n.** *deletana* p. 33, STRAND Arch. Natg. **82** A 2 1917.

*Dermaleipa javanica* **sp. n.** p. 199, **var.** *defasciata* **n.** p. 200 E. Indies, GAEDE Ent. Zeitung **78** 1917.—*D. juno* **subsp. n.** *ceramensis* Ceram p. 224, PROUT Bull. Hill Mus. **1.**

*Dianthoecia caesia* **var.** *xanthophoba* **n.** Herzegovina & Bosnia p. 154, SCHAWERDA Beitr. Verh. Zool. Bot. Ges. Wien **71.**—*D. submoesta* Möschler v. *Polia renisigna.*

*Diastictis berta* **sp. n.** Mexico p. 170, DYAR Insecutor Inscit. Menstr. **10.**

*Dicroplema* **gen. n.** *insolita* **sp. n.** B.E. Africa p. 125 (fig.), GAEDE Ent. Zeitung **77** 1916.

*Dilophothripoides* **gen. n.** (*Sarrothripinae*), *noliformis* **sp. n.** Formosa p. 132, STRAND Arch. Natg. **82** A 3.

*Diphthera egua* **sp. n.** New Mexico p. 169, DYAR Insecutor Inscit. Menstr. **10.**—*D. nigricatena* **sp. n.** Ceram p. 228, PROUT Bull. Hill Mus. **1.**

*Dipinacia schiniodes* Dognin, *Chlorothrix zothecaea* Dyar synonyn of, p. 10, DYAR Insecutor Inscit. Menstr. **10.**

*Earias citrina* abb. *citrinella, citrinoides, citrinula; luteolaria* abb. *aurantiaca, carnea; biplaga* ab. *punctilineis; huegeli* abb. *huegeliana, rubicundialba; insulana* ab. *rufovitta; vernana* ab. *coeruleoviridis; cupreoviridis* ab. *cellulalis; roseifera* abb. *discoidalis, decarneata, dorsalis,* **abb. n.** p. 89, STRAND Arch. Natg. **82** A 1 1917. —*E. flavida* **ab. n.** *sauteri* p. 144, STRAND Arch. Natg. **82** A 1 1917.

*Egnasia lioperas* **sp. n.** Transvaal p. 184 pl. i fig. 10, PROUT Ann. Transvaal Mus. **8.**

*Elaeognatha melanosticta* abb. *melanostictoides, melanostictella, melanostictana, submelanosticta* **abb. n.** p. 86, STRAND Arch. Natg. **82** A 1 1917.

*Elydna graphicomas* **sp. n.** Mexico p. 169, DYAR Insecutor Inscit Menstr. **10.**

*Erastria viridisquama* **ab. n.** *obscurior* p. 37, STRAND Arch. Natg. **82** A 2 1917.

*Ercheia albirenata* **sp. n.** Borneo p. 200, GAEDE Ent. Zeitung **78** 1917.

*Ericeia goniosoma* **sp. n.** New Guinea, D'Entrecasteaux & Louisiade Islands, Australia p. 191, HAMPSON Bull. Hill Mus. **1.**—*E. gonioptila* p. 233, *amplipennis* p. 234, Ceram **spp. n.**, PROUT Bull. Hill Mus. **1.**

*Eriopus ludovici* **sp. n.** Ceram p. 204, PROUT Bull. Hill Mus. **1.**

*Eriopyga carneitincta* **sp. n.** p. 358 Guatemala, SCHAUS Proc. U. S. Nat. Mus. **59.**—*E. dormitosa* **sp. n.** Mexico p. 9, DYAR Insecutor Inscit. Menstr. **10.**—*E. melanopis* **var. n.** *coloradensis; curvata* ab. *albivenis* p. 29; *vecors* ab. *purpureobrunnea; contrahens* ab. *purpurascens; affurata* ab. *brunneosuffusa* p. 30, **abb. n.**, STRAND Arch, Natg. **82** A 2 1917.—*E.* (*Orthodes*) *lindseyi* **sp. n.** U.S.A. p. 195, BENJAMIN Canad. Entom. **54.**

*Eriopygodes albipuncta* **sp. n.** E. Africa p. 115 (fig.), GAEDE Ent. Zeitung **77** 1916.—*E. euclidias* **ab. n.** *depupillata* p. 30, STRAND Arch. Natg. **82** A 2 1917.

*Erizada semifervens* abb. *punctata, maculata; subrubra* ab. *distincta,* **abb. n.** p. 91, STRAND Arch. Natg. **82** A 1 1917.

*Escaria homogena* **sp. n.** Atlanta p. 238, MCDUNNOUGH Canad. Ent. **54.**

*Ethiopica umbra* **sp. n.** B.E.A. p. 409, LE CERF Voy. M. Rothschild E. Afr. Anim. Art. pt. 1.

*Exyra semicrocea* Guen., *hubbardiana* Dyar, **ab.**. *immaculata* **n.** Mississippi p. 221, BENJAMIN Canad. Ent. **54.**

*Eublemma faedosa* ab. *faedosana; quinaria* ab. *orientis; snelleni* abb. *pallidior, discirufa; dardouini* ab. *mala; suava* ab. *virilis; nigrivitta* ab. *basifusca; ornatula* ab. *brunneosuffusa; sperans* ab. *natalensis; delicata* ab. *delicatula; therma* abb. *thermella, thermoides; albida* ab. *luteoalba,* p. 32; *albivena* ab. *nigrilinea; versicolora* abb. *purpurascens, purpureocinerea; cinnamomea* ab. *subcinnamomea; obliqualis* abb. *luteipennis, brunneoochracea; ragusana* ab. *basialbida; pyrastis* ab. *pyrastodes; conspersa* ab. *louisiadensis; griseola* ab. *nucha,* p. 33, **abb. n.**, STRAND Arch. Natg. **82** A 2 1917.—*E. semirufa* **ab. n.** *novaeguineae p.* 87, STRAND T.c.

*Euclidia glyphica, mi,* early stages of, p. 169, COCKAYNE Ent. Rec. **34.**

*Euclystis subtremula, cayuga* p. 373, *mnyra* Guatemala, *polyoperas* p. 374, Venezuela, **spp. n.**, SCHAUS Proc. U. S. Nat. Mus. **59.**

*Eugraphia splendens* **ab. n.** *paraguayensis* p. 39, STRAND Arch. Natg. **82** A 2 1917.

*Eulepidotis aglae, punctilinea* p. 371, *philosis* p. 372 Guatemala, **spp. n.**, SCHAUS Proc. U. S. Nat. Mus. **59.**

*Eulocastra melaena* abb. *demaculata, duplilinea; aethiops* ab. *maculicilia* p. 36, **abb. n.**, STRAND Arch. Natg. **82** A 2 1917.

*Euplexia benesimilis* **sp. n.** Canada p. 238, MCDUNNOUGH Canad. Ent. **54.**—*E. latifascia* **sp. n.** Ceram p. 203, PROUT Bull. Hill Mus. **1.**

*Eustrotia opella* ab. *opellodes*; *albissigna* ab. *reniformis* p. 36, **abb. n.**, STRAND Arch. Natg. **82** A 2 1917.

*Eutelia chromatica* **sp. n.** p. 368 Guatemala, SCHAUS Proc. U. S. Nat. Mus. **59.**—*E. polychorda* **abb. n.** *polychordoides, polychordella, polychordana, polychordula, subpolychorda, pseudopolychorda, purpurascens, subpurpurascens, limbofusca* p. 73, STRAND Arch. Natg. **82** A 1 1917.

*Euxoa clavigera* **sp. n.** Mexico p. 166, DYAR Insecutor Inscit. Menstr. **10.**—*E. crassa* **ab. n.** *lata-fulva* Cyrenaica p. 148, TURATI Atti Soc. ital. Sci. nat. Milano **61.**

*Focilla planitis* **sp. n.** Mexico p. 11, DYAR Insecutor Inscit. Menstr. **10.**

*Focillidia texana* **ab. n.** *brunnior* p. 42, STRAND Arch. Natg. **82** A 2 1917.

*Gabala polyspilalis* ab. *postsuffusa* **ab. n.** p. 88, STRAND Arch. Natg. **82** A 1 1917.

*Gadirtha pulchra* ab. *fuscithorax*; *glaucograpta* ab. *plumbeomaculata*; *exacta* abb. *atrisuffusa, olivascens*; *cuprescens* ab. *fakfakensis*; *poliochroa* ab. *brisbanensis* **abb. n.** p. 85, STRAND Arch. Natg. **82** A 1 1917.

*Garella rotundipennis* ab. *rotundimacula* **ab. n.** p. 81, STRAND Arch. Natg. **82** A 1 1917.

*Giaura tortricoides* abb. *ura, borneonis* **abb. n.** p. 82, STRAND Arch. Natg. **82** A 1 1917.

*Gigantoceras solstitialis* **ab. n.** *albifascia* p. 78, STRAND Arch. Natg. **82** A 1 1917.

*Gnamptogyia diagonalis* **ab. n.** *tana* p. 9, STRAND Arch. Natg. **82** A 3.

*Gonodontodes chionosticta* **ab. n.** *jamaicensis* p. 42, STRAND Arch. Natg. **82** A 2 1917.

*Gonostygia jacopa* **sp. n.** Guatemala p. 365, SCHAUS Proc. U. S. Nat. Mus. **59.**

*Grammodes cooma* **ab. n.** *coomana* p. 39, STRAND Arch. Natg. **82** A 2 1917.

*Grotella harveyi* p. 11, *stretchi* p. 14, *vagans* p. 15, **spp. n.**, N. Amer., keys to spp. and revision of genus, BARNES & BENJAMIN Cont. Nat. Hist. Lep. N. Amer. **5.**

*Grotellaforma* **gen. n.** near *Grotella* genotype *Grotella colora* Barnes p. 24, BARNES & BENJAMIN Contrib. Nat. Hist. Lep. N. Amer. **5.**

*Gyrtona semicarbonalis* abb. *dorsobimaculata, dorsomaculata, diffusistriga*; *oxyptera* ab. *singaporensis* p. 80, *proximalis* abb. *brunneomaculata, demaculata* p. 81, **abb. n.**, STRAND Arch. Natg. **82** A 1 1917.

*Habrostola asclepiadis* Schiff. distinguished, figs., p. 60, CLAYHILLS Notulae Ent. **2.**

*Hadena vilis* **sp. n.** E. Africa p. 114 (fig.), GAEDE Ent. Zeitung **77** 1916.—*H. adusta* Esp. **var. n.** *carpathica* p. 39, KAUCKI Polskie Pismo Ent. **1.**—*H. uncisigna* **ab. n.** *acopampensis* p. 8, STRAND Arch. Natg. **82** A 3.

*Heliocheilus paradoxus*, stridulation of, p. 244, HEBARD Ent. News **33.**

*Heliocontia apicella* **ab. n.** *obliquella* p. 37, STRAND Arch. Natg. **82** A 2 1917

*Heliothis guidellii* **sp. n.** Italy p. 99, COSTANTINI N. Beiträge system. Insektenk. **2.**

*Herminia crinalis* **f.** *barbierii* **n.** p. 99 Italy, COSTANTINI N. Beiträge system. Insektenk. **2.**

*Hermonassa incisa* **var. n.** *kaschmiricola* p. 86, STRAND Arch. Natg. **82** A 2.

*Heterochroma celestina* p. 361 Guatemala, *rollia* Peru p. 362, **spp. n.**, SCHAUS Proc. U. S. Nat. Mus. **59.**

*Hiccoda nigripalpis* **ab. n.** *codana* p. 34, STRAND Arch. Natg. **82** A 2 1917.

*Homoptera unilineata* early stages of, p. 103, CLARK Bull. Brooklyn Ent. Soc. **12** 1917.

*Hoplotarache nubila* **ab. n.** *basialba* p. 37, STRAND Arch. Natg. **82** A 2 1917.

*Hoplotarsia* **gen. n.** (near *Copitarsia*), *magna* **sp. n.** Masatierra p. 259 pl. x fig. 4, AURIVILLIUS Nat. Hist. of Juan Fernandez **3** (2).

*Hoporina erythrago* **ab.** *xanthrago* **n.** Bosnia and Herzegovina p. 157, SCHAWERDA Beitr. Verh. Zool. Bot. Ges. Wien **71.**

*Hyblaea subcaerulea* **sp. n.** Ceram p. 250, PROUT Bull. Hill Mus. **1.**

*Hydrillodes lugens* **sp. n.** Ceram p. 246, PROUT Bull. Hill Mus. **1.**

*Hydroeciodes marcona, ritaria*, **spp. n.**, p. 359 Guatemala, SCHAUS Proc. U.S. Nat. Mus. **59.**—*H. alala* **var. n.** *jalapae* p. 29, STRAND Arch. Natg. **82** A 2 1917.

*Hylophila prasinana* var. *millierei* Capr., ab. *rufilinea* War. synonym of, p. 35, DERENNE Rev. Mens. Soc. Ent. **1922.**—*H. prasinana* **abb. n.** *dorsilutea, albidula* p. 90, STRAND Arch. Natg. **82** A 1 1917.

*Hylophilodes tortriciformis* **sp. n.** Formosa p. 145, STRAND Arch. Natg. **82** A 1 1917.

*Hypaetra novaguineana* ab. *pallidior*; *discolor* abb. *delunaris, devittalis discoloralis, subdiscoloralis, thursdayensis*, **abb. n.** p. 40, STRAND Arch. Natg. **82** A 2 1917.

*Hypena euphyes* p. 248, *ceramensis* p. 249, **spp. n.**, Ceram, PROUT Bull. Hill Mus. **1.**—*H. iconicalis* **var.** *chosokeiana* **n.** Formosa p. 7, STRAND Ent. Zs. **36.**—*H. phecomalis* ab. *violaceo-definita*; *aenescens* ab. *excurvata*, **abb. n.**, p. 88, STRAND Arch. Natg. **82** A 2.—*H. tetrasticta* **ab. n.** *rhodesiensis* p. 9, STRAND Arch. Natg. **82** A 3.

*Hyperepia* **gen. n.**, *pi* **sp. n.** N.Mex., p. 56, BARNES & LINDSEY Bull. Brooklyn Ent. Soc. **17.**

*Ichneutica nervosa* **sp. n.** New Zealand p. 196, HUDSON Ent. Mo. Mag. **58.**

*Iscadia aperta* ab. *apertella* **ab. n.** p. 85, STRAND Arch. Natg. **82** A 1 1917.

*Kerala multipunctata* **var. n.** *formosensis* p. 134, STRAND Arch. Natg. **82** A 3.

*Labanda fasciata* abb. *pseudofasciata*, *albosuffusa* p. 86, *achine* abb. *fuscosuffusa*, *antemialis* p. 87, **abb. n.**, STRAND Arch. Natg. **82** A 1 1917.

*Lagoptera convergens* **sp. n.** N.E. Sumatra p. 200, GAEDE Ent. Zeitung **78** 1917.

*Lampra barnesi* **sp. n.** Arizona p. 97 form *nevadensis* **f. nov.** Nevada, *forbesi* **sp. n.** Utah p. 98, BENJAMIN Bull. S. Cal. Acad. Sci. **20.**

*Lathosea spauldingi* **sp. n.** N. America p. 29, characters of genus discussed p. 28, BARNES & BENJAMIN Contrib. Nat. Hist. Lep. N. Amer. **5.**

*Leistera pulchristrigata denuda* **subsp. n.**, Ceram p. 233, PROUT Bull. Hill Mus. **1.**

*Leucanitis habibazel* **sp. n.** Tunisia, life history, p. 245, DUMONT Bull. Soc. ent. France **1922.**—*L.* key to species p. 48, *austera* **sp. n.** Persia p. 44, *cailino* Lef. **forma** *baigakumensis* **n.** Turkestan p. 45, *pamira* **sp. n.** Pamir p. 46, *albofasciata* **sp. n.** South eastern Persia p. 47, ION Rev. Russe Ent. **17.**—*L. christophi* **ab. n.** *pia* p. 44, STRAND Arch. Natg. **82** A 2 1917.

*Lichenoptera felina* ab. *mexicana*; *albidiscata* abb. *dognini* p. 46, *pauli* p. 47, **abb. n.**, STRAND Arch. Natg. **82** A 2 1917.

*Lineopalpa horsfieldi chlora* **subsp. n.**, **abb.** *albistriga*, *albifascia*, *albimaculata*, *diffusisigna* **n.** Ceram p. 241, PROUT Bull. Hill Mus. **1.**

*Lithacodia variicolor* **sp. n.** B.E.A. p. 418 (fig.), LE CERF Voy. M. Rothschild E. Afr. Anim. Art. pt. 1.—*L. vialis* ab. *vialana*; *varicolora* ab. *medioirrorata* p. 35; *armilla* ab. *betsileonis*; *musta* ab. *costaricana* p. 36, **abb. n.**, STRAND Arch. Natg. **82** A 2. 1917.—*L.* (*Erastria*) *venustula* Hb. British records pp. 29–34, NICHOLSON Essex Nat. **20.**

*Lophocrama phoenicochlora* **abb. n.** *postalba*, *mediopurpurea*, *medioclara* p. 90, STRAND Arch. Natg. **82** A 1 1917.

*Lophoptera litigiosa* abb. *saturatior*, *fuscosuffusa*, *albopunctata*, *nigrosuffusa*, *rubicunda*; *illucida* abb. *argenteocoerulea*, *dorsimacula*, *illucidella*, *illucidana*, *hampsoni*, *illucidoides*, **abb. n.**, p. 79, STRAND Arch. Natg. **82** A 1 1917.

*Lophothripa vitea* **ab. n.** *viteana* p. 82, STRAND Arch. Natg. **82** A 1 1917.

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*Mocis electaria* ab. *electariella ; cubana* ab. *santiagonis ; bahamica* ab. *postmedialis ; munda* abb. *mundana, mundella* p. 40, *submundana, pseudomunda, perversa ; marcida* ab. *obscurior ; repanda* abb. *repandana, repandella, repandoides ; diffluens* ab. *dorsimacula ; frugalis* ab. *frugalisana ; undata* ab. *philippinensis ; trifasciata* ab. *uniformis ; mutuaria* ab. *mutuarides*, p. 41, **abb. n.**, STRAND Arch. Natg. **82** A. 2 1917.

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*Othreis cajeta talboti* **subsp. n.** p. 238, *prattorum* **sp. n.** p. 239 Ceram, Prout Bull. Hill Mus. **1.**

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*Oxygonitis sericeoides* **sp. n.** Ceram p. 240, Prout Bull. Hill Mus. **1.**

*Pachetra leucophaea* **ab. n.** *syriensis* p. 29, Strand Arch. Natg. **82** A 2 1917.

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*Perigea caustimargo* **sp. n.** Mexico p. 168, DYAR Insecutor Inscit. Menstr. **10.**—*P. baalba, parista,* **spp. n.,** Guatemala p. 363, SCHAUS Proc. U. S. Nat. Mus. **59.**

*Phorocera dusentrei* **sp. n.** Morocco p. 245, OBERTHUR Etudes Lép. **19** pt. 1.

*Phupheña proselyta* **sp. n.** Guatemala p. 364, SCHAUS Proc. U. S. Nat. Mus. **59.**

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*Pleroma arizonata* **sp. n.** Arizona p. 35, *obliquata* **subsp. n.** *smithi* Utah p. 34, BARNES & BENJAMIN Cont. Nat. Hist. Lep. N. Amer. **5.**

*Plotheia decrescens* abb. *plumbeocinerea, apicialba, dorsialba, punctiseriata, sublichenoides, dorsibrunnea* p. 83, *albistriga, atra, nigra, medioalbida, subgriseovirens, lativittifera, obliquevittata, sublata, rufofascia* p. 84, **abb. n.,** STRAND Arch. Natg. **82** A 1 1917.

*Plusia latistigma* **sp. n.** Ceram p. 229, PROUT Bull. Hill Mus. **1.**—*P. chalcytes* biology of, in Morocco p. 53, MIÈGE Bull. Soc. Path. Veget. **9.**

*Plusidia cheiranthi* **ab. n.** *valdepallida* p. 48, STRAND Arch. Natg. **82** A 2 1917.

*Poenopsis* **gen. n.** *anstrusa* **sp. n.** Mexico p. 12, DYAR Insecutor Inscit. Menstr. **10.**

*Polia zerfii* **sp. n.** Tunis, and description of egg, larva and pupa p. 276, DUMONT Bul. Soc. ent. France **1922.**—*P. cuneata* abb. *basirufa, rubicunda*; *pensilis* ab. *indistincta*; *dysodea* ab. *kaschmirensis* p. 28; *poliastis* ab. *capensis*; *laudabilis* abb. *mediosuffusa, rufoirrorata*; *quadrilineata* ab. *cinereoviridis* p. 29 **abb. n.,** STRAND Arch. Natg. **82** A 2 1917.—*P. renisigna* Wlk., *Dianth. submoësta* Möschler synonym of, p. 114, GAEDE Ent. Zeitung **77** 1916.

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*Protarache fuscibasis* **sp. n.** E. Africa p. 121 (fig.), GAEDE Ent. Zeitung **77** 1916.

*Protonestra silenides* **ab. n.** *pallidior* p. 29, STRAND Arch. Natg. **82** A 2 1917.

*Psectrotarsia tamsi* **sp. n.** Argentine p. 225, GIACOMELLI Entomologist **55.**

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*Pseudelydna xanthia* **ab. n.** *xanthiana*; *rufoflava* **ab. n.** *tula* p. 90, STRAND Arch. Natg. **82** A 1 1917.

*Pterogonia episcopalis* **ab. n.** *nagasana* p. 92, STRAND Arch. Natg. **82** A 1 1917.

*Rachiplusia nu* **ab. n.** *nuana* p. 47, STRAND Arch. Nat. **82** A 2 1917.

*Ramphila albizona* **ab. n.** *alboirrorata* p. 42, STRAND Arch. Natg. **82** A 2 1917.

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*Risoba avola* **subsp.** *magna* **n., ab.** *ochracea* **n.** Ceram p. 214, PROUT Bull. Hill Mus. **1**.—*R. delicata* ab. *delicatula ; prominens* abb. *rufialbivertex, alata* **abb. n.** p. 88, STRAND Arch. Natg. **82** A 1 1917.

*Rivula manuselensis* **sp. n.** Ceram p. 238, PROUT Bull. Hill Mus. **1**.

*Safia sinaloa* **sp. n.** Mexico p. 370, SCHAUS Proc. U. S. Nat. Mus. **59**.—*S. obscura* ab. *grenadensis ; albidiscata* ab. *albidiscatella ; obscisa* ab. *obscisana,* **abb. n.** p. 43, STRAND Arch. Natg. **82** A 2 1917.

*Safidia azteca* **abb. n.** *aztecoides* p. 42, *aztecella, aztecana* p. 43, STRAND Arch. Natg. **82** A 2 1917.

*Sarrothripus indica* ab. *atrithorax ; grisea* ab. *triangularis ; minuta* ab. *albonigra ; exophila* abb. *obliquestrigata, nigrosuffusa* **abb. n.** p. 82, STRAND Arch. Natg. **82** A 1 1917.—*S. revayana* notes on p. 131, SHELDON Entomologist **55**.

*Savara longipectinata* **sp. n.** Ceram p. 241, PROUT Bull. Hill Mus. **1**.

*Sexserrata* **gen. n.** near *Azenia* p. 42, type *hampsoni* **sp. n.** U.S.A. p. 43, BARNES & BENJAMIN Contrib. Nat. Hist. Lep. N. Amer. **5**.

*Selepa celtis* ab. *celtisella* p. 82; *discigera* abb. *walkeri, hampsoni, caniceps ; leucogonia* abb. *brunneiceps, simplex ; molybdea* abb. *discocellularis, singaporensis ; docilis* abb. *inversa, taprobanis* **abb. n.** p. 83, STRAND Arch. Natg. **82** A 1 1917.

*Setoctena patricula* **ab. n.** *patriculella* p. 93, STRAND Arch. Natg. **82** A 1 1917.

*Simplicia nitida, clarilinea,* **spp. n.,** Ceram p. 245, PROUT Bull. Hill Mus. **1**.

*Simyra fiorii* **sp. n.** Cyrenaica p. 146, TURATI Atti Soc. Ital. Sci. nat. Milano **61**.—*S. nervosa* **f.** *atrata* **n.** p. 189, BELLING D. ent. Zs. **1922**.

*Sinna joiceyi* **sp. n., ab.** *jacobi* **n.** Ceram p. 215, PROUT Bull. Hill Mus. **1**.

*Stenhypena adustalis* **var. n.** *formosana* p. 145, STRAND Arch. Natg. **82** A 1 1917.

*Stibadium murisca* **sp. n.** Guatemala p. 365, SCHAUS Proc. U. S. Nat. Mus. **59**.

*Stictoptera indescribens, parva,* **spp. n.,** p. 206, **abb.** *albifascia* p. 207 *signiferoides* **n.,** *hampsoni* **sp. n.** p. 208 **abb.,** *nigribasis, nigripuncta, bifurca, ochrifascia, nigristima, albifascia, timesioides* **n.,** *griseata* **subsp.** *superans* **n.** p. 209, *variegata* **subsp.** *manuselensis* **n.,** *grisea* **subsp.** *fasciimargo* **n.** p. 210, *melancholica* **sp. n.** p. 211, *arcuata* **f.** *nigribasis* **n.** p. 212 Ceram, PROUT Bull. Hill Mus. **1**.—*S. describens* abb. *describentis, semilunaris, atrifascia, atrimaculata, albosuffusa, patagiata ; signifera* abb. *signiferella, basilutea, nigrostriga, amboinae ; subobliqua* abb. *subobliquella subobliquana, subobliquodes* p. 75, *pseudosubobliqua, rufobrunnea, basilutea, subbasilutea, nigrofascia, basisuffusa, connecta ; timesia* abb. *timesoides, timesella, timesiana, nigrotincta ; cucullioides* abb. *obscurior, griseoochracea, patagialis ; vitiensis* abb. *nigrocrista* p. 76, *uniformis, purpurascens, lineata ; griseata* ab. *strigifera ; bisexualis* abb. *albovertex, kebeae ; semialba* abb. *laba, dala ; grisea* ab. *tala ; melanistis* abb. *melanistella, melanistiana, melanistodes* p. 77, *ferrifera* abb. *ferriferella, ferriferana, ferriferoides, ferriferola, subferrifera, subferriferella ; atrifera* abb. *atriferella, atriferoides ; albipuncta* ab. *cinereipicta*; *confluens* ab. *lagosensis ; columba* ab. *basiochrea* p. 78, **abb. n.,** STRAND Arch. Natg. **82** A 1 1917.

*Stretchia plusiaeformis* **var. n.** *coloradicola* p. 30, STRAND Arch. Natg. **82** A 2 1917.

*Syngrapha microgramma* ab. *v-notata ; snowi* ab. *lula ; epigaea* ab. *epigaeella ; rectangula* ab. *demaculata, octoscripta* ab. *beta ; excelsa* ab. *excelsana ; angulidens* ab. *plusioides ; altera* ab. *alterana ; interrogationis* abb. *annulata* p. 47, *confluens, simplex ; gammoides* ab. *aberrans ; egena* ab. *egenoides* p. 48, **abb. n.,** STRAND Arch. Natg. **82** A 2 1917.

*Sypna admiratio* p. 232, *achaeopsis* p. 230, **spp. n., abb.** *fuscimaculata, fuscofasciata, variegata, defuscata* p. 231, *rhodozona* p. 232, **n.**, Ceram, PROUT Bull. Hill Mus. **1.**

*Taeniocampa witzenmanni* **var. n.** *nigrolimbata* Morocco p. 243, OBERTHUR Etudes Lép. **19** pt. 1.

*Tarache bella* **sp. n.** Arizona p. 45, BARNES & BENJAMIN Contrib. Nat. Hist. Lép. N. Amer. **5.**—*T. lanceolata* ab. *lanceolatana ; axendra* ab. *axendrana ; gonella* ab. *gonellana ; abdominalis* abb. *luta, mala ; flavipennis* abb. *discolutea, delutea ; arieli* ab. *monstrosa ; aprica* abb. *apricana, apricella, apricanoides ; nivipicta* ab. *nivipictoides ; hieroglyphica* ab. *connecta* p. 38 *; crocata* ab. *crocatana ; sexpunctata* abb. *nilgirica, nilgiriensis ; detrita* ab. *detritella ; thapsina* ab. *thapsinana ; caffraria* ab. *kikuyuēnsis ; leucotrigona* ab. *leucotrigonides* p. 39, **abb. n.**, STRAND Arch. Natg. **82** A 2, 1917.—*T. vau-album* **ab. n.** *canarensis* p. 8, STRAND Arch. Natg. **82** A 3 1917.

*Tarachidia candefacta* **ab. n.** *candefactella* p. 37, STRAND Arch. Natg. **82** A 2 1917.

*Taseopteryx inquieticolor* **sp. n.** Florida p. 169, DYAR Insecutor Inscit. Menstr. **10.**

*Tathothripa continua* ab. *subdeflexa* **ab. n.** p. 84, STRAND Arch. Natg. **82** A 1 1917.

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*Zygaena* British spp. of, p. lxxiii, GROSVENOR Proc. Ent. Soc. **1921.**

*Chalcosiinae,* revision of the oriental, pp. 1–93, 1 pl., HERING Arch. Natg. **88** A 11.

"H. Stauder, *Zygaena carniolica* Scop. im mittleren Mediterrangebiete," correction p. 42, WAGNER Soc. ent. **37.**

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*Auzata* (*Auzatella* **subgen. n.**) *micronioides* **sp. n.** Formosa p. 148, Strand Arch. Natg. **82** A 3.

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*Iridrepana falcipennis* Bhutan, *semirufa* p. 464 (with **subsp. n.** *elegans* and **ab. n.** *diluta*), *examplata*, *cervina*, *tristigma*, *obliquitaenia* New Guinea p. 465, *glaciata* Sikkim, *mediata* Goodenough I. p. 467, **spp. n.**, *septempunctata* **subsp. n.** *pervasata* Travancore, *sera* **ab. n.** *suffusa* p. 465, *melliflua* **nom. n.** for *crocea* Hmpsn. p. 466, WARREN in Seitz Fauna indoaustralica **10** 1922.

*Kosemponiola* **gen. n.** *Drepanidae*, *bipectinata* **sp. n.** Formosa p. 148, STRAND Arch. Natg. **82** A 1 1917.

*Leucoblepsis* **gen. n.**, type *carneotincta* Warr. p. 462, WARREN in Seitz Fauna indoaustralica **10** 1922.

*Microblepsis* **gen. n.**, type *cupreogrisea* Hmpsn. p. 461, WARREN in Seitz Fauna indoaustralica **10** 1922.

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*Rhodoneura kosemponis* **sp. n.** Formosa p. 151, STRAND Arch. Natg. **82** A 1 1917.—*R. angustifasciata* **sp. n.** Canton p. 34, GAEDE D. ent. Zs. **1922.**—*R. fallax* **ab. n.** *fallacioides* p. 89, STRAND Arch. Natg. **82** A 2.

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*Bradyrrhoa demartinella* **sp. n.** Cyrenaica p. 167, TURATI Atti Soc. ital. Sci. nat. Milano **61.**

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*Lyricen vagans* **sp. n.** p. 336 fig. India, MUIR Rec. Ind. Mus. **24.**

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*Zeugma fuscinervis* **sp. n.** p. 340 India, MUIR Rec. Ind. Mus. **24.**

*Zoraida brunnipennis* p. 341, fig., *Z.* (*Peggiopsis*) *kempi* p. 342, fig., **spp. n.**, India, MUIR Rec. Ind. Mus. **24.**—*Z. kalshoveni* Singapore p. 347 (figs.), *bakeri* Borneo (fig.), *mcgregori* (nec *sinuosa* Boh.), p. 348 **spp. n.**, Philippine Is. *insulicola* Kirkcaldy, synonym of *cumulata* Walk. p. 349, MUIR Philipp. Jl. Sci. **20.**

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†*Permofulgor indistinctus* **sp. n.** Upper Permian of Belmont, N.S.W., p. 280 fig. 1, TILLYARD Proc. Linn. Soc. N.S.W. **47.**

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*Kempiana* **gen. n.**, nr. *Magadha*, Dist. (*Achilidae*) *maculata* **sp. n.** India, p. 354 fig., MUIR Rec. Ind. Mus. **24.**

†*Lithopsis dubiosa* **sp. n.** p. 456 Eocene Colorado (figs.), Proc. U. S. Nat. Mus. **59.**

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*Rhotala gravelyi* **sp. n.** India p. 353 fig., MUIR Rec. Ind. Mus. **24.**

*Theryana* **gen. n.** (*Issidae*) *semissoides* **sp. n.** p. 129 Moyen Atlas marocain, DE BERGEVIN Bull. Soc. Sci. nat. Maroc **2.**

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*Convarcia* **gen. n.** type *apicata* Mel. p. 148 N. Guinea, SCHMIDT Stett. Ent. Zeit. **80** 1919.

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†*Eoricania* **gen. n.** (*Ricaniidae*), *danica* **sp. n.** Eocene Denmark, p. 24, fig. 13, HENRIKSEN Danmarks geol. Unders. **2** no. 37.

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†*Lechaea primigenia* **sp. n.** Eocene Denmark p. 27, fig. 15, HENRIKSEN Danmarks geol. Unders. **2** no. 37.

*Mindura fritzei* **sp. n.** Liu Kiu Island p. 93, HAUPT Stett. Ent. Zeit. **79** 1918.

*Neovarcia* **gen. n.** type *aequata* Mels. p. 161 S. America, SCHMIDT Stett. Ent. Zeit. **80** 1919.

†*Ormenis furcata* **sp. n.** Eocene Denmark p. 26, fig. 14, HENRIKSEN Danmarks geol. Unders. **2** no. 37.

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*Paravarcia* **gen. n.** p. 149, *deceptrix* p. 150 Tonking **sp. n.**, SCHMIDT Stett. Ent. Zeit. **80** 1919.

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*Varciopsis nigricoxis* vide *Orthothyreus apicalis* Schmidt.

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*Acanthucus minutispinus* **sp. n.**, India p. 323, FUNKHOUSER Rec. Ind. Mus. **24** fig.

*Adippe nigrorubra* **sp. n.** Costa Rica p. 32 (fig.), FUNKHOUSER Jl. New York Ent. Soc. **30.**

*Amastris elevata* p. 27, *projecta* Peru p. 28, *sabulosa* Brazil p. 29, *minuta* Peru p. 30, *maculata*, *brunneipennis* Brazil p. 31 (figs.), **spp. n.**, FUNKHOUSER Jl. New York Ent. Soc. **30.**

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†*Aenigmatodes* (?) *regularis* (*Palaeodictyoptera*) **sp. n.** Middle Coal Measures, Barnsley Yorks, p. 71, pl. iv fig. 7, text-fig. 21, BOLTON Foss. Ins. Brit. Coal Meas. 1921.

†*Aphthoroblattina eggintoni* **sp. n.** (*Blattoidea, Archimylacridae*) Middle Coal Measures, Coseley Staffs., p. 100, pl. vi fig. 6, text-fig. 32, BOLTON Foss. Ins. Brit. Coal Meas. 1922.

†*Archimylacris incisa* **sp. n.** (*Blattoidea Archimylacridae*) Middle Coal Measures, Coseley Staffs., p. 107, pl. vii fig. 3, BOLTON Foss. Ins. Brit. Coal Meas. 1922.

†*Coselia* **gen. n.** (*Coseliidae* **fam. n.**, *Protorthoptera*)) *palmiformis* **sp. n.** Middle Coal Measures, Coseley Staffs., p. 81, pl. v fig. 3, text-fig. 25, BOLTON Foss. Ins. Brit. Coal Meas. 1922.

†*Geroneura* (?) *ovata* **sp. n.** (*Mixotermitoidea*) Middle Coal Measures, Coseley Staffs., p. 77, pl. v fig. 1, BOLTON Foss. Ins. Brit. Coal Meas. 1921.

†*Laspeyresiella* **nom. n.** for *Laspeyresia* Handlirsch (*Protorthoptera*) p. 133, KRAUSSE Arch. Natg. **87** A 10.

†*Mecynoptera tuberculata* **sp. n.** (*Palaeodictyoptera*) Middle Coal Measures, Rochdale Lancs. p. 37 pl. ii fig. 2, text-figs. 5, 6, BOLTON Foss. Ins. Brit. Coal Meas. 1921.

†*Mesorthopteron locustoides* (*Protorthoptera*), revised definition of family and genus p. 448, pl. li fig. 26, text-fig. 72, TILLYARD Proc. Linn. Soc. N.S.W. **47.**

†*Nymphomorpha* **gen. n.**, *medialis* **sp. n.** Eocene Denmark p. 13, fig. 3, HENRIKSEN Danmarks geol. Unders. **2** no. 37.

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†*Ptenodera* **gen. n.** (*Protoblattoidea*) p. 90, *dubius* **sp. n.** Middle Coal Measures, Coseley Staffs., p. 91, pl. vi fig. 2, text-fig. 28, BOLTON Foss. Ins. Brit. Coal Meas. 1922.

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†*Scalaeoptera* **gen. n.** (*Oedischiidae, Protorthoptera*) *recta* **sp. n.** Middle Coal Measures, Coseley Staffs., p. 88, pl. vi fig. 1, textfig. 27, BOLTON Foss. Ins. Brit. Coal Meas. 1922.

†*Soomylacris stocki* **sp. n.** (*Blattoidea, Mylacridae*) Coal Measures, Forest of Dean, p. 130, pl. ix fig. 3, text-fig. 41, BOLTON Foss. Ins. Brit. Coal Meas. 1922.

†*Triassolocusta* **gen. n.** (*Locustopsidae*) *leptoptera* **sp. n.** Upper Triassic of Ipswich, Queensland p. 451 pl. li fig. 28, text-fig. 74, TILLYARD Proc. Linn. Soc. N.S.W. **47.**

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INCLUDING

# ENTEROPNEUSTA AND PTEROBRANCHIA

BY

J. R. NORMAN.

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BY

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# XIV. REPTILIA AND BATRACHIA

ARRANGED BY

W. L. SCLATER.

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# XV. AVES

ARRANGED BY

W. L. SCLATER, M.A.

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*Full references are given only in the case of new genera and species. In other cases the numeral in Clarendon refers to the List of Titles, where the full reference will be found.*

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ORDER APTERYGIFORMES.

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ORDER TINAMIFORMES.

*Tinamus major zuliensis* **subsp. n.** Venezuela, OSGOOD & CONOVER Field Mus. Publ. Zool. **12** p. 24.

*Nothocerus plumbeiceps* **sp. n.** Ecuador, LÖNNBERG & RENDAHL Ark. Zool. **14** No. 25 p. 13.

*Crypturornis cerviniventris* redescribed and notes on other Venezuelan species, OSGOOD & CONOVER, **567** p. 24.—*C. idoneus* additional description, TODD & CARRIKER, **803** p. 166.—*Northocercus tataupa* female incubating, VENDRAN **814**.

*Crypturornis* **gen. n.** vice *Crypturus* auct. nec Illiger type *Tetrao cinereus* Gm., OBERHOLSER Proc. Biol. Soc. **35** p. 74.

ORDER GALLIFORMES.

Monograph of the Pheasants, vol. iv containing accounts of the genera *Chrysolophus*, *Chalcurus*, *Polyplectron*, *Rheinardius*, *Argusianus* and *Pavo*, with descriptions and coloured plates of each species, BEEBE **60**.

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*Crax annulata* addt. description, TODD & CARRIKER **803** p. 175.

*Penelope columbiana* figured, TODD & CARRIKER **803** p. 173 pl. ii.

*Ortalis ruficrissa baliolus* **subsp. n.** Venezuela, OSGOOD & CONOVER Field Mus. Publ. Zool. **12** p. 31.

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*Canachites canadensis osgoodi* critical notes on subspecies, SWARTH **769** p. 205.

*Dendragapus obscurus flemingi* habits on Stickine River, critical notes on subspecies, SWARTH **769** p. 203.

*Tetrastes bonasia* plumage differences in young and old, SCHIEBEL **664**.—*T. septemtrionalis* in Siberia, remarks, OLSEN **563** p. 22.—*T. coreensis* **subsp. n.** Corea, KURODA & MORI Auk **39** p. 365.

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*Ammoperdix griseogularis* described and figured in colour, BAKER **32**.

*Francolinus* review of African species, M.-PRAED **477**; taxonomic. notes on E. African species, SOMEREN **716** pp. 27–31; notes on synonymy of several species, *F. icteropus* Heugl. = *F. erckeli*, O. NEUMANN **545**.—*F. bicalcaratus ogilvie-granti* **subsp. n.** Cameroon highlands and note on distribution of the typical race. BANNERMAN Bul. B. O. C. 42 p. 132.

*Dendroperdix* **gen. n.** for type *Francolinus sephaena* (A. Smith), ROBERTS Ann. Transvaal Mus. **8** p. 194.

*Perdix perdix* in Saskatchewan, DEXTER **183**; introduction and naturalization in western Canada, BRADSHAW **91**; the "*montana*" variety a Mendelian one, GILL **268**.—*P. hodgsoniae* described and figured in colour, BAKER **32**.

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ARRANGED BY

W. L. SCLATER.

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# LIST OF ABBREVIATIONS WITH TITLES OF JOURNALS CONTAINING PAPERS DEALING WITH MATTERS OF ZOOLOGICAL IMPORTANCE.

*Aarsb. Selsk. Norsk Fiskerier Frem., Bergen.*—Aarsberetning. Selskapet for de Norske Fiskeriers Fremme. Bergen. — Nor.

*Abh. Ak. Wiss., Berlin.*—Abhandlungen der kgl. Akademie der Wissenschaften zu Berlin. Berlin. — Ger.

*Abh. bayer. Ak. Wiss., München.*—Abhandlungen der bayerischen Akademie der Wissenschaften. München. — Ger.

*Abh. D. Seefischereiver., Berlin.*—Abhandlungen des deutschen Seefischereivereins. Berlin. — Ger.

*Abh. geol. Landesanst., Berlin.*—Abhandlungen der kgl. preussischen geologischen Landesanstalt. Berlin. — Ger.

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*Abh. Mus. Natk., Magdeburg.*—Museum für Natur- und Heimatkunde zu Magdeburg. Abhandlungen und Berichte. Magdeburg. — Ger.

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*Abh. natw. Ver., Bremen.*—Abhandlungen, hrsg. v. naturwissenschaftlichen Verein zu Bremen. — Ger.

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*Anz. Orn. Ges. Bay., Munchen.*—Anzeiger der Ornithologischen Gesellschaft in Bayern, München. — Ger.

*Aquila, Budapest.*—Aquila, Budapest. — Hun.

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*Arb. D. Landw. Ges., Berlin.*—Arbeiten der deutschen Landwirthschafts-Gesellschaft. Berlin. — Ger.

*Arb. hirnanat. Inst. Zürich, Wiesbaden.*—Arbeiten aus dem hirnanatomischen Institut in Zürich. Wiesbaden. — Ger.

*Arb. Naturf.-Ver., Riga.*—Arbeiten des Naturforscher-Vereins zu Riga.— Latv.

*Arb. path. Inst., Tübingen.*—Arbeiten auf dem Gebiete der pathologischen Anatomie, u. Bakteriologie aus dem pathologisch-anatomischen Institut zu Tübingen. Braunschweig. — Ger.

*Arb.* Zool. *Inst. Univ., Wien.*—Arbeiten aus den Zoologischen-Instituten der Universität Wien und der Zoologischen Station in Triest. Wien. — Aus.

*Arch. anat. microsc., Paris.*—Archives d'anatomie microscopique, dir. Ranvier et Henneguy. Paris. — Fr.

*Arch. Anat. Physiol., Leipzig.*—Archiv für Anatomie und Physiologie, Leipzig. 1. Anatomische Abtheilung u. d. T.: Archiv für Anatomie und Entwicklungsgeschichte. 2. Physiologische Abtheilung u. d. T.: Archiv für Physiologie. — Ger.

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*Arch. EntwMech., Leipzig.*—Archiv für Entwicklungsmechanik der Organismen. Leipzig. — Ger.

*Arch. Esc. sup. Agric. e Med. vet., Nictheroy.*—Archivos da Escola superior de Agricultura e Medicina veterinaria, Nictheroy. — Brazil.

*Arch. exper. Path., Leipzig.*—Archiv für experimentelle Pathologie und Pharmakologie. Leipzig. — Ger.

*Arch. fisiol., Firenze.*—Archivio di fisiologia, Firenze. — It.

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*Arch. ges. Psychol., Leipzig.*—Archiv für die gesammte Psychologie. Leipzig. — Ger.

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*Arch. Hydrobiol., Stuttgart.*—Archiv für Hydrobiologie und Planktonkunde (N. F. der Forschungsberichte a. d. biolog. Station zu Plön). Stuttgart. — Ger.

*Arch. Inst. Bact., Lisboa.*—Archivos do Instituto bacteriologico Camara Pestana, Lisboa. — Por.

*Arch. Inst. Pasteur Afr. N., Algiers.*—Archives des Instituts Pasteur de l'Afrique du Nord. Alternately Algiers and Tunis. — Algeria.

*Arch. Ital. Anat. Embr., Firenze.*—Archivio Italiano di Anatomia e di Embriologia, Firenze. — Ital.

*Arch. ital. biol., Torino.*—Archives italiennes de biologie, Torino. — It.

*Arch. Landesk. Sachsen, Halle.*—Archiv für Landes- und Volkskunde der Provinz Sachsen. Halle. — Ger.

*Arch. Math. Naturv., Kristiania.*—Archiv for Mathematik og Naturvidenskab, Kristiania. — Nor.

*Arch. Melit., Valetta.*—Archivum Melitense: Journal of the Malta Historical and Scientific Society. Valetta. — Malta.

*Arch. mikr. Anat., Bonn.*—Archiv für mikroskopische Anatomie und Entwicklungsgeschichte. Bonn. — Ger.

*Arch. Molluskenkunde, Frankfurt.*—Archiv fur Molluskenkunde als Nachrichtsblatt der Deutschen Malakozoologischen Gesellschaft, Frankfurt-a.-M. — Ger.

*Arch. Morph., Paris.*—Archives de Morphologie, Générale et Experimentale, Paris. — Fr.

*Arch. Mus. hist. nat., Lyon.*—Archives de Muséum d'histoire naturelle. Lyon (Rhône). — Fr.

*Arch. Mus., Rio de Janeiro.*—Archivos do Museu Nacional do Rio de Janeiro. — Braz.

*Arch. Mus. Teyler, Haarlem.*—Archives du Musée Teyler, Haarlem. — Hol.

*Arch. Natg., Berlin.*—Archiv für Naturgeschichte. Berlin. — Ger.

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*Arch. parasit., Paris.*—Archives de parasitologie. Paris. — Fr.

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*Arch. Schiffs- Tropen-Hygiene, Leipzig.*—Archiv für Schiffs- und Tropen-Hygiene, Pathologie und Therapie exotischer Krankheiten. Leipzig. — Ger.

*Arch. Sci. Biol., Napoli.*—Archivio di Scienze Biologische, Napoli. — It.

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*Arch. Ver. Natg., Güstrow.*—Archiv des Vereins der Freunde der Naturgeschichte in Mecklenburg. Güstrow. — Ger.

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*Atti Acc. Pontaniana, Napoli.*—Atti dell' Accademia Pontaniana, Napoli. — It.

*Atti Acc. sc., Napoli.*—Atti della R. Accademia delle scienze fische e matematiche, Napoli. — It.

*Atti Acc. sc., Torino.*—Atti della R. Accademia delle scienze, Torino. — It.

*Atti Acc. ven.-trent., Padova.*—Atti dell' Accademia scientifica veneto-trentina-istriana, Padova. — It.

*Atti Ist. ven., Venezia.*—Atti del R. Istituto veneto di scienze, lettere ed arti, Venezia. — It.

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*Cassinia, Philadelphia.*—Cassinia: Proceedings of the Delaware Valley Ornithological Club of Philadelphia, Philadelphia, Pa. — U.S.

*Cellule, Louvain.*—La Cellule. Recueil de cytologie et d'histologie générale. Lierre et Louvain. — Bel.

*Centralbl. Bakt., Jena.*—Centralblatt für Bakteriologie, Parasitenkunde und Infektionskrankheiten. 1. Abth.: Medicinschhygienische Bakteriologie. 2. Abth.: Allgemeine, landw.-technol. etc. Bakteriologie. Jena. — Ger.

*Centralbl. Min., Stuttgart.*—Centralblatt für Mineralogie, Geologie und Paläontologie, Stuttgart. — Ger.

*Cold Spring Harbor Monog., Brooklyn.*—Cold Spring Harbor Monographs. Brooklyn Institute of Arts and Sciences. Brooklyn, N.Y. — U.S.

*Colorado Coll. Pub. Sci. Ser., Colo. Springs.*—Colorado College Publications. Science Series. Colorado Springs. — U.S.

*Com. Paleont. Mus. Mineral. Geol. Univ., Copenhague.*—Communications Paleontologiques. Museum de Minéralogie et de Géologie de l'Université de Copenhague. Kjøbenhavn. — Den.

*Com. Ser. Geol., Lisboa.*—Comunicações da Comissão do serviço geologíco de Portugal. Lisboa. — Por.

*Condor, Berkeley, Cal.*—Condor. (Cooper Ornithological Club), Berkeley, Cal. — U.S.

*Contr. Canad. Biol., Ottawa.*—Contributions to Canadian Biology, being Studies from the Marine Biological Stations of Canada. Ottawa. — Can.

*Copeia New York.*—Copeia. Published to advance the Science of cold-blooded Vertebrates, New York. N.Y. U.S.

*D. ent. Zs., Berlin.*—Deutsche entomologische Zeitschrift, hrsg. v. d. deutschen entomologischen Gesellschaft. Berlin. — Ger.

*D. ent. Zs. Iris, Berlin.*—Deutsche entomologische Zeitschrift, hrsg. vom entomologischen Verein Iris in Dresden. Berlin. — Ger.

*Dennison Univ. Bul., Granville, Ohio.*—Dennison University Bulletin. Journal of the Scientific Laboratories, Granville, Ohio. — U.S.

*Danmarks Geol. Unders., Kjöbenhavn.*—Danmarks geologiske Undersögelser, Kjöbenhavn. — Den.

*Dansk Orn. Tids., Kjöbenhavn.*—Dansk ornithologisk Forenings Tidsskrift. Kjöbenhavn. — Den.

*Denkschr. Ak. Wiss., Wien.*—Denkschriften der Kaiserlichen Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Wien. — Aus.

*Denkschr. med.-nat. Ges., Jena.*—Denkschriften der medicinisch-naturwissenschaftlichen Gesellschaft zu Jena. — Ger.

*Dōbuts. Z., Tōkyō.*—Dōbutsugaku Zasshi. [Zoological Magazine.] Tōkyō, Japan. — Jap.

*Echange, Moulins.*—L'Echange. Revue linnéenne, organe des naturalistes de la région lyonnaise, contenant les demandes d'échange, d'achat . . . de livres, collections ou objets d'histoire naturelle. Moulins. — Fr.

*Eclogæ Geol. Helvet., Lausanne.*—Eclogæ geologicæ Helvetiæ. Recueil périodique de la Société géologique suisse. Mitteilungen der schweizerischen geologischen Gesellschaft. Lausanne. — Swi.

*Ecology, Brooklyn, N.Y.*—Ecology. Devoted to all forms of Life in relation to Environment, Brooklyn, N.Y. — U.S.

*Ectoparasites, Tring.*—Ectoparasites, Tring; printed in London. — U.K.

*Emu, Melbourne.*—The Emu, Official Organ of the Royal Australian Ornithologists' Union. Melbourne. — Austral.

*Ent. Anz., Wien.*—Entomologischer Anzeiger. Wien. — Austr.

*Ent. Ber., Helder.*—Entomologische Berichten uitgegeven door de Nederlandsche entomologische Vereeniging. — Hol.

*Ent. Bl., Berlin.*—Entomologische Blätter. Zeitschrift für Biologie und Systematik der Käfer. Berlin. — Ger.

*Ent. Mag., London.*—The Entomologists' Monthly Magazine. London. — U.K.

*Ent. Medd., Kjöbenhavn.*—Entomologiske Meddelelser, Kjöbenhavn. — Den.

*Ent. Mitt., Berlin.*—Entomologische Mitteilungen, hrsg. v. Verein zur Förderung des deutsch. entomol. Museums. Berlin. — Ger.

*Ent. News, Philadelphia.*—Entomological News and Proceedings of the Entomological Section of the Academy of Natural Sciences of Philadelphia. American Entomological Society, Philadelphia, Pa. — U.S.

*Ent. Rdsch., Stuttgart.*—Entomologische Rundschau mit Anzeigenbeilage: Insektenbörse und Beilage: Entomologisches Vereinsblatt. Stuttgart. — Ger.

*Ent. Rec., London.*—The Entomologists' Record and Journal of Variations, London. — U.K.

*Ent. Tidskr., Stockholm.*—Entomologisk Tidskrift utgifven af Entomologiska Föreningen i Stockholm. Stockholm. — Swe.

*Ent. Zeitung, Stettin.*—Entomologische Zeitung, Stettin, printed in Berlin. — Ger.

*Ent. Zs., Frankfurt a. M.*—Entomologische Zeitschrift. Centralorgan des internationalen entomologischen Vereins. Frankfort a. M. — Ger.

*Entomologist, London.*—The Entomologist, London. — U.K.

*Erd. Vándorgy Emlékk, Kolozsvár.*—Erdélyi Muzeum Egyesűlet Vándorgyűléseinek Emlékkönyve, Kolozsvár. [Memoiren der Wandersitzung des siebenbürgischen Museum-Vereines, Kolozsvár.] — Roum.

*Ergebn. Anat. Entwickl., Wiesbaden.*—*Vide* Anat. Hefte, Wiesbaden.

*Ergebn. Physiol., Wiesbaden.*—Ergebnisse der Physiologie. Wiesbaden. — Ger.

*Ergebn. Zool., Jena.*—Ergebnisse und Fortschritte der Zoologie. Jena. — Ger.

*Essex Nat., Stratford.*—Essex Naturalist, Stratford, Essex. — U.K.

*Falco, Leipzig.*—Falco, unregelmässig im Anschluss an das Werk „ Berajah, Zoographica infinita " erscheinende Zeitschrift. Leipzig. — Ger.

*Fauna exotica, Frankfurt a. M.*—Fauna exotica. Mitteilungen aus dem Gebiete der exotischen Insektenwelt. Beiblatt der entomologischen Zeitschrift. Frankfurt a. M. — Ger.

*Fauna och Flora, Uppsala.*—Fauna och Flora. Populär Tidskrift för Biologie, utgifven af Einar Lönnberg. Uppsala and Stockholm. — Swe.

*Field Mus. Publ. Geol. Ser., Chicago.*—Field Museum Publications. Geological Series. Chicago, Ill. — U.S.

*Field Mus. Publ. Zool. Ser., Chicago.*—Field Museum Publications. Zoological Series. Chicago, Ill. — U.S.

*Flora og Fauna, Kjöbenhavn.*—Flora og Fauna. Kjöbenhavn. — Den.

*Florida Entomol., Gainesville Fla.*—The Florida Entomologist. Official Organ of the Florida Entomological Society. Gainsville, Fla. U.S.

*Földt. Közl., Budapest.*—Földtani Közlöny, Budapest. [Geologische Mittheilungen, Budapest.] — Hun.

*Folia neurobiol., Haarlem.*—Folia neurobiologica. Internationales Zentralorgan für die gesamte Biologie des Nervensystems, Haarlem. — Holl.

*Forh. Vid. selsk., Kristiania.*—Fordhandlinger i Videnskabsselskabet i Kristiania. — Nor.

*Fortschr. Natw. Forschg., Berlin.*—Fortschritte der Naturwissenschaftlichen Forschung. Berlin. — Ger.

*Geelong Nat.*—The Geelong Naturalist, the Quarterly Journal of the Geelong Field Naturalists' Club. Geelong. [Victoria.] — Austral.

*Genetica, s'Gravenhage.*—Genetica. Nederlandsch Tijdschrift voor Erfelijkheids- en Afstammingsleer; s'Gravenhage. — Holl.

*Genetics, Brooklyn.*—Genetics: a Periodical Record of Investigations bearing on Heredity and Variation. Brooklyn, N.Y. — U.S.

*Geol. För. Förh., Stockholm.*—Geologiska Föreningens i Stockholm förhandlingar. Stockholm. — Swe.

*Geol. Mag., London.*—Geological Magazine, London. — U.K.

*Geol. palæont. Abh., Jena.*—Geologische und palæontologische Abhandlungen. Jena. — Ger.

*Geol. Rdsch., Berlin.*—Geologische Rundschau. Zeitschrift für allgemeine Geologie, hrsg. v. d. Geologischen Vereinigung. Berlin. — Ger.

*Geol. Zentralb., Leipzig.*—Geologischen Zentralblatt, Leipzig.

*Geogn. Jahreshefte, München.*—Geognostische Jahreshefte, hrsg. v. d. geognostischen Abtheilung des kgl. bayerischen Oberbergamts in München. München. — Ger.

*Gerfaut, Bruxelles.*—Le Gerfaut. Revue belge d'Ornithologie. Bruxelles. — Belg.

*Ghlas Srpske Ak., Beoghrad (Belgrade).*—Ghlas Srpske Kraljevske akademije. Prvī razred. Beoghrad. Belgrade. — Yugosl.

*Giorn. sc. nat. econ., Palermo.*—Giornale della Società di scienze naturali ed economiche, Palermo. — It.

*Glasgow Nat.*—The Glasgow Naturalist. The Journal of the Natural History Society of Glasgow (including the Transactions and Proceedings of the Society) (3rd Ser.). Glasgow. — U.K.

*Glasnik naravosl. družt., Zagreb.*—Glasnik hrvatskoga naravoslovnoga družtva. [Societas historico-naturalis Croatica.] Zagreb. — Yugosl.

*Glasnik ZemMuz. Bosn. Herceg., Sarajevo.*—Glasnik Zemaljskog Muzeja u Bosni i Hercegovini. (Anzeiger des Landsmuseums für Bosnien und die Hercegovina.) Sarajevo. — Yugsl.

*Göteborg, Vet. Handl.*—Göteborgs Kungl. Vetenskaps- och Vitterhetssamhälles Handlingar. Göteborg. — Swe.

*Hastings and East Sussex Nat.*—Hastings and East Sussex Naturalist, being the Journal of the Hastings and St. Leonards Natural History Society. Hastings. — U.K.

*Helios, Berlin.*—Helios, Abhandlungen und Mittheilungen aus dem Gesammtgebiete der Naturwissenschaften. Organ des naturwissenschaftlichen Vereins des Reg.-Bez. Frankfurt a. O. Berlin. — Ger.

*Hereditas, Lund.*—Hereditas, Genetiskt Arkiv., Lund. — Swe.

*Himmel u. Erde, Berlin.*—Himmel und Erde. Illustrirte naturwissenschaftliche Monatsschrift. Berlin. — Ger.

*Hist. Berwickshire Nat. Cl., Alnwick.*—History of the Berwickshire Naturalists' Club, Alnwick. — U.K.

*Hoppe-Seylers Zs. physiol. Chem., Berlin.*—Hoppe-Seylers Zeitschrift für physiologische Chemie. Berlin. — Fr.

*Hornero, Buenos Aires.*—El Hornero. Rivista de la Sociedad Ornitologica del Plata. Buenos Aires. — Arg.

*Hull Mus. Publ.*—Hull Museum Publications. — U.K.

*Ibis, London.*—The Ibis; a Quarterly Journal of Ornithology, London. — U.K.

*Illinois Biol. Monogr., Urbana, Ill.*—Illinois Biological Monographs, University of Illinois, Urbana, Ill. — U.S.

*Ind. J. Med. Res., Calcutta.*—Indian Journal of Medical Research, Calcutta. — Ind.

*Insecta, Rennes.*—Insecta; Revue illustree d'Entomologie, Rennes. — Fr.

*Insecutor Ins. Menstr., Washington.*—Insecutor Inscitiae Menstruus, Washington. — U.S.

*Intern. ent. Zs., Guben.*—Internationale entomologische Zeitschrift, hrsg. unter Mitarbeit bedeutender Entomologen. Guben. — Ger.

*Intern. Rev. Hydrobiol., Leipzig.*—Internationale Revue der gesamten Hydrobiologie und Hydrographie. Leipzig. — Ger.

*Iowa Geol. Surv., Des Moines.*—Iowa Geological Survey. Annual Reports, Des Moines. — U.S.

*Irish Nat., Dublin.*—Irish Naturalist (a monthly Journal of General Irish Natural History), Dublin. — U.K.

*J. Acad Nat. Sci., Philadelphia.*—Journal of the Academy of Natural Sciences of Philadelphia. Philadelphia, Pa. — U.S.

*J. Agric. Res., Washington.*—United States Department of Agriculture. Journal of Agricultural Research. Washington, D.C. — U.S.

*J. Agric. Sci., Cambridge.*—Journal of Agricultural Science, Cambridge. — U.K.

*J. Anat., London.*—The Journal of Anatomy, London. — U.K.

*J. Anim. Behav., Boston.*—Journal of Animal Behavior, Boston, Mass. — U.S.

*J. Asiat. Soc. Beng., Calcutta.*—Journal and Proceedings of the Asiatic Society of Bengal, Calcutta. — Ind.

*J. Biol. Chem., Baltimore.*—The Journal of Biological Chemistry, Baltimore — U.S.

*J. Bombay Nat. Hist. Soc.*—Journal of the Bombay Natural History Society, Bombay. — Ind.

*J. China R. As. Soc., Shanghai.*—Journal of the China Branch of the Royal Asiatic Society, Shanghai. — China.

*J. Cincinnati Soc. Nat. Hist.*—Journal of the Cincinnati Society of Natural History, Cincinnati, Ohio. — U.S.

*J. Coll. Agr. Univ., Tokyo.*—Journal of the College of Agriculture, Imperial University of Tokyo. — Jap.

*J. Coll. Sci., Tōkyō.*—The Journal of the College of Science, Imperial University of Tōkyō, Japan. *European languages.* — Jap.

*J. Comp. Neur. Psych., Philadelphia.*—The Journal of Comparative Neurology Philadelphia. — U.S.

*J. Comp. Path. Ther., Edinburgh.*—Journal of Comparative Pathology and Therapeutics, Edinburgh and London. — U.K.

*J. Conch., Leeds.*—The Journal of Conchology, Leeds. — U.K.

*J. conchyliol., Paris.*—Journal de conchyliologie. Paris. — Fr.

*J. Dept. Agric. Union S. Africa, Pretoria.*—Journal of the Department of Agriculture, Union of South Africa. Pretoria. — S. Af.

*J. Derby Archæol. Nat. Hist. Soc.*—Journal of the Derbyshire Archæological and Natural History Society. London and Derby. — U.K.

*J. E. Afr. & Uganda N.H. Soc., Nairobi.*—Journal of the East Africa and Uganda Natural History Society. Nairobi, printed in London. — Kenya Col.

*J. Econ. Ent., Geneva, N.Y.*—Journal of Economic Entomology: official organ of the Association of Economic Entomologists. Geneva, N.Y. — U.S.

*J. Elisha Mitchell Sci. Soc., Chapel Hill, N.C.*—Journal of the Elisha Mitchell Scientific Society, Chapel Hill, N.C. — U.S.

*J. Ent. Zool., Claremont, Cal.*—Journal of Entomology and Zoology, Pomona College. Claremont, Cal. — U.S.

*J. Exp. Med., New York.*—Journal of Experimental Medicine, New York. — U.S.

*J. Exp. Zool., Philadelphia.*—The Journal of Experimental Zoology, Philadelphia, Pa. — U.S.

*J. Fed. Malay Mus., Kuala Lumpur.*—Journal of the Federated Malay States Museums, Kuala Lampur. — Straits Settlements.

*J. Genetics, Cambridge.*—Journal of Genetics, Cambridge. — U.K.

*J. Geol., Chicago, Ill.*—Journal of Geology. University of Chicago, Chicago, Ill. — U.S.

*J Geol. Soc., Tokyo.*—Journal of the Geological Society of Tokio. (In Japanese, with English title-page, etc.) — Jap.

*J. Helminth., London.*—Journal of Helminthology, London. — U.K.

*J. Heredity, Baltimore.*—The Journal of Heredity, Baltimore and Washington. — U.S.

*J Ipswich F. Cl.*—Journal of the Ipswich and District Field Club, Ipswich.

*J. Linn. Soc. Zool., London.*—Journal of the Linnean Society (Zoology), London. — U.K.

*J. Mammal., Baltimore.*—Journal of Mammalogy. Published by the American Society of Mammalogists. Baltimore, Md. — U.S.

*J. Mar. Biol. Ass., Plymouth.*—Journal of the Marine Biological Association of the United Kingdom, Plymouth. — U.K.

*J. Med. Res., Boston, Mass.*—Journal of Medical Research. Continuation of the Journal of the Boston Society of Medical Sciences. Boston, Massachusetts. — U.S.

*J. Ministr. Agric., London.*—Journal of the Ministry of Agriculture, London. — U.K.

*J. Morph., Philadelphia.*—Journal of Morphology, Philadelphia, Pa. — U.S.

*J. Mus. Comp. Ool., S. Barbara, Cal.*—The Journal of the Museum of Comparative Oology, Santa Barbara, Cal. — U.S.

*J. Nat. Hist. Soc. Siam, Bangkok.*—Journal of the Natural History Society of Siam, Bangkok. — Siam.

*J. Nat. Hist. Soc., Torquay.*—Journal of the Natural History Society, Torquay. — U.K.

*J. New York Ent. Soc.*—Journal of the New York Entomological Society, New York. — U.S.

*J. Northampton Nat. Hist. Soc.*—Journal of the Northamptonshire Natural History Society and Field Club, Northampton. — U.K.

*J. Ornith., Leipzig.*—Journal für Ornithologie. Leipzig. — Ger.

*J. Parasitology, Urbana, Ill.*—Journal of Parasitology: A quarterly devoted to Medical Zoology. Urbana, Ill. — U.S.

*J. Path. Bact., Edinburgh.*—Journal of Pathology and Bacteriology, Edinburgh and London. — U.K.

*J. Physiol., Cambridge.*—The Journal of Physiology. [Includes Proceedings of the Physiological Society.] London and Cambridge. — U.K.

*J. physiol. path. gén., Paris.*—Journal de physiologie et de pathologie générale. Paris. — Fr.

*J. Proc. R. Soc. N.S. Wales, Sydney.*—Journal and Proceedings of the Royal Society of New South Wales, Sydney. — Australia.

*J. Psychol., Leipzig.*—Journal für Psychologie und Neurologie. Organ des Kaiser Wilhelm-Institut für Hirnforschung und des neuro-biologischen Instituten der Universität, Berlin. Leipzig. — Ger.

*J Quek. Microsc. Cl., London.*—Journal of the Quekett Microscopical Club, London. — U.K.

*J. R. Agric. Soc., London.*—Journal of the Royal Agricultural Society of England, London. — U.K.

*J. R. Inst. Cornwall, Truro.*—Journal of the Royal Institution of Cornwall, Truro. —U.K.

*J. R. Microsc. Soc., London.*—Journal of the Royal Microscopical Society, London. — U.K.

*J. R. Soc., Sydney, N.S.W.*—The Journal and Proceedings of the Royal Society, Sydney. — Austral.

*J. R. Soc. West Austral., Perth.*—Journal and Proceedings of the Royal Society of West Australia, Perth. — Austral.

*J. Sci., Lisboa.*—Jornal de Sciencias matematicas, fisicas e naturais, publicado pela Academia das Sciencias de Lisboa. — Por.

*J. Straits Asiat. Soc., Singapore.*—Journal of the Straits Branch of the Royal Asiatic Society, Singapore. — Strs. Settl.

*J. Trop. Med., London.*—Journal of Tropical Medicine and Hygiene, London. — U.K.

*J. Trop. Vet. Sci., Calcutta.*—The Journal of Tropical Veterinary Science, Calcutta. — Ind.

*J. Washington Acad. Sci.*—Journal of the Washington Academy of Sciences, Washington, D.C. — U.S.

*J. Wild Bd. Invest. Soc., London.*—Journal of the Wild Bird Investigation Society, London. — U.K.

*J. Zool. Res., London.*—The Journal of Zoological Research, London. — U.K.

*Jaarb. Cl. Ned. Vogelk., Delft.*—Jaarbericht. Club van Nederlandsche Vogelkundigen, Delft. — Hol.

*Jaarb. Mijnw. Ned.-Ost.-Ind., Weltefreden, Java.*—Jaarboek van het Mijnwezen in Nederlandsch-Oost.-Indië. Weltevreden, Java. — Dutch Ind.

*Jahrb. Ak. Wiss., Erfurt.*—Jahrbücher der kgl. Akademie gemeinnütziger Wissenschaften zu Erfurt. Erfurt. — Ger.

*Jahrb. geol. Landesanst., Berlin.*—Jahrbuch der kgl. preussischen geologischen Landesanstalt und Bergakademie. Berlin. — Ger.

*Jahrb. Geol. RchsAnst., Wien.*—Jahrbuch der k. k. Geologischen ReichsAnstalt, Wien. — Aus.

*Jahrb. Hamburg wiss. Anst.*—Jahrbuch der Hamburgischen wissenschaftlichen Anstalten. Hamburg. — Ger.

*Jahrb. Nat.-Hist. LdMus. Kärnten, Klagenfurt.*—Jahrbuch des Naturhistorischen Landes-Museums von Kärnten. Klagenfurt. — Aus.

*Jahrb. St. Gallen Natw. Ges.*—Jahrbuch der St. Gallischen naturwissenschaftlichen Gesellschaft. St. Gallen. — Swi.

*Jahrb. Ver. Natk., Wiesbaden.*—Jahrbücher des nassauischen Vereins für Naturkunde. Wiesbaden. — Ger.

*Jahresber. Böhm. Ges. Wiss., Prag.*—Jahresbericht der Kön[iglich] Böhmischen Gesellschaft der Wissenschaften. Prag. — Checho-Slov.

*Jahresber. Ges. Natw., Gera.*—Jahresbericht der Gesellschaft von Freunden der Naturwissenschaft in Gera. — Ger.

*Jahresber. Ges. vaterl. Cultur, Breslau.*—Jahresbericht der schlesischen Gesellschaft für vaterländische Cultur. Breslau. — Ger.

*Jahresber. Mus. Franc. Carol., Linz.*—Jahresbericht des Museums Francisco-Carolinum. Nebst der . . . Lieferung der Beiträge zur Landeskunde von Österreich ob der Enns. Linz. — Aus.

*Jahresber. natf. Ges. Graub., Chur.*—Jahresbericht der naturforschenden Gesellschaft Graubündens. Chur. — Swi.

*Jahresber. natf. Ges., Emden.*—Jahresbericht der naturforschenden Gesellschaft in Emden. Emden. — Ger.

*Jahresber. nathist. Ges., Hannover.*—Jahresbericht der naturhistorischen Gesellschaft zu Hannover. Hannover. — Ger.

*Jahresber. natw. Ver., Elberfeld.*—Jahresberichte des naturwissenschaftlichen Vereins in Elberfeld und Barmen. Elberfeld. — Ger.

*Jahresber. oberrhein. geol. Ver., Stuttgart.*—Jahresberichte und Mitteilungen des oberrheinischen geologischen Vereines, Stuttgart. — Ger.

*Jahresber. Physiol., Stuttgart.*—Jahresbericht über die Fortschritte der Physiologie. Stuttgart. — Ger.

*Jahresber. ProvVer. Wiss., Münster.*—Jahresbericht des westfälischen Provinzialvereins für Wissenschaft und Kunst. Münster. — Ger.

*Jahresber. Ver. Natk., Zwickau.*—Jahresbericht des Vereins für Naturkunde zu Zwickau. Zwickau. — Ger.

*Jahresber. Ver. Natw., Braunschweig.*—Jahresbericht des Vereins für Naturwissenschaft zu Braunschweig. — Ger.

*Jahresber. Wien. Entom. Ver.*—Jahresbericht des Wiener Entomologischen Vereines. Wien. — Aus.

*Jahreshefte Ver. Insektenk., Breslau.*—Jahresheft des Vereins für schlesische Insektenkunde zu Breslau. — Ger.

*Jahreshefte Ver. Natk., Stuttgart.*—Jahreshefte des Vereins für vaterländische Naturkunde in Württemberg. Stuttgart. — Ger.

*Japan. J. Geol. Geogr., Tokio.*—Japanese Journal of Geology and Geography, Tokio. — Jap.

*Japan. J. Zool., Tokyo.*—Japanese Journal of Zoology, published by the National Research Council of Japan, Tokyo. — Jap.

*Jenaische Zs. Natw.*—Jenaische Zeitschrift für Naturwissenschaft, hrsg. v. d. medicinisch-naturwissenschaftlichen Gesellschaft zu Jena. — Ger.

*Johns Hopkins Univ. Stud. Geol., Baltimore.*—The Johns Hopkins University Studies in Geology, Baltimore. — U.S.

*K. Svenska Vet.-Ak. Handl., Stockholm.*—Kongl. Svenska Vetenskaps-Akademiens Handlingar. Stockholm. — Swe.

*Koleopt. Rundsch. Vienna.*—Koleopterologische Rundschau, Wien. — Aus.

*Konch. Sek., Gifu.*—Konchū Sekai (The Insect World, a monthly magazine devoted to the useful application and scientific study of entomology). Gifu, Japan. — Jap.

*Konowia, Vienna.*—"Konowia." Zeitschrift für systematische Insecktenkunde. Wien. — Aus.

*Korr.blt. Naturf.-Ver., Riga.*—Korrespondenzblatt des Naturforscher-Vereins zu Riga. — Esth.

*Kosmos, Lemberg.*—Kosmos, czasopismo Polskiego Towarzystwa przyrodników im. Kopernika, Lwów (*i.e.*, Lemberg). — Pol.

*L. M. B. C. Mem., Liverpool.*—Liverpool Marine Biology Committee. L. M. B. C. Memoirs. Liverpool. — U.K.

*Lancs. Ches. Nat.*—The Lancashire and Cheshire Naturalist: a Monthly Journal. Darwen, Lancs. — U.K.

*Leopoldina, Halle.*—Leopoldina. Amtl. Organ der kais. Leopoldinisch-Carolinischen deutschen Akademie der Naturforscher, Halle. Leipzig. — Ger.

*Lepidopterist, Salem, Mass.*—The Lepidopterist Salem, Mass. — U.S.

*London Naturalist.*—The London Naturalist (The Journal of the London Natural History Society), London. — U.K.

*Lotos, Prag.*—Lotos, naturwissenschaftl. Zeitschrift, hrsg. vom deutschen naturw med. Verein „ Lotos " in Prag. Prag. — Checko-Slov.

*Maanedsskr. Dyrl., Kjöbenhavn.*—Maanedsskrift for Dyrlaeger, Kjöbenhavn. — Den.

*Madras Fish. Bull.*—Madras Fisheries Department Bulletin, Madras. — Ind.

*Magyar Kir Földt. Évk., Budapest.*—A Magyar Kir Földtani Évkönyvei, Budapest. [Jahrbuch für Geologie Budapest.] — Hun.

*Magyar Kir Földt. Int. Évi Jelent., Budapest.*—A Magyar Királyi Földtani Intézet Évi Jelentése, Budapest. [Jahresbericht der Königlichen ungarischen geologischen Anstalt. Budapest.] — Hun.

*Malayan Agric. J., Kuala Lumpur.*—The Malayan Agricultural Journal. The organ of the Department of Agriculture, Kuala Lumpur. — Fed. Malay.

*Marcellia, Avellino.*—Marcellià, Rivista internazionale di Cecidologia, Avellino. — It.

*Maryland Geol. Surv., Baltimore.*—Maryland Geological Survey, Baltimore. — U.S.

*Math.-natw. Ber. Ungarn, Leipzig.*—Mathematische und naturwissenschaftliche Berichte aus Ungarn. Leipzig. — Ger.

*Math. Termt. Ért., Budapest.*—Mathematikai és Természettudományi Értesitö, Budapest. [Mathematischer und naturwissenschaftlicher Anzeiger, Budapest.] — Hun.

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*Riv. Ital. Orn., Bologna.*—Rivista italiana di ornitologia, Bologna. — It.

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